

87047R01
VOLUME 4
ORIGINAL



Rocky Mountain Arsenal
Information Center
Commerce City, Colorado

FILE COPY

Property Inventory and Condition Survey
for the
Group IV Utility Systems Property
and
Group II Chemical Plant Property
within the
Shell Oil Company Leasehold Area
at
US Army Rocky Mountain Arsenal
Commerce City, CO

VOLUME FOUR
GROUP II CHEMICAL PLANT PROPERTY
Building Numbers 311, 333, 335, 336, 356, and 728

prepared by
Harland Bartholomew & Associates, Inc.
St. Louis, MO

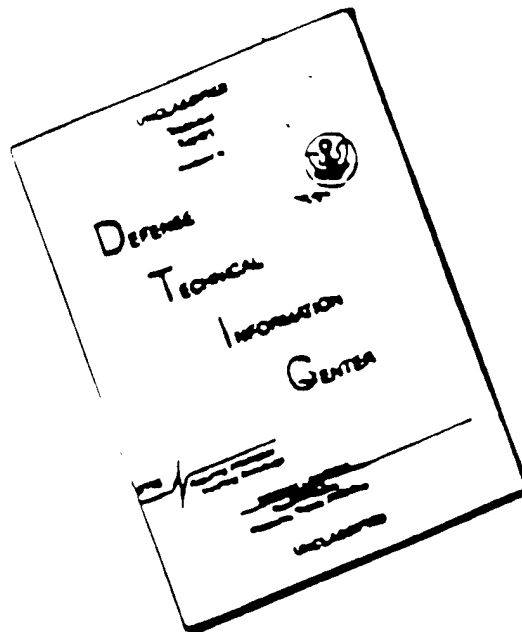
11 October 1982

19950309 067

DISTRIBUTION STATEMENT A

Approved for public release;
Distribution Unlimited

DISCLAIMER NOTICE



THIS DOCUMENT IS BEST
QUALITY AVAILABLE. THE COPY
FURNISHED TO DTIC CONTAINED
A SIGNIFICANT NUMBER OF
PAGES WHICH DO NOT
REPRODUCE LEGIBLY.

VOLUME FOUR

GROUP II CHEMICAL PLANT PROPERTY

(Building Numbers 311, 333, 335, 336, 356 and 728)

TABLE OF CONTENTS

<u>Item</u>	<u>Page</u>
INDEX OF REPORTS.	1
CERTIFICATE	2
FOREWORD.	3
CRITERIA.	8
LOCATION MAP.	10
AERIAL PHOTOGRAPH	11
PROPERTY INVENTORY AND CONDITION SURVEY REPORT	
BUILDING NO. 311 (General Storehouse)	12
BUILDING NO. T-333 (General Purpose Warehouse).	22
BUILDING NO. T-335 (General Purpose Warehouse).	31
BUILDING NO. T-336 (General Purpose Warehouse).	44
BUILDING NO. T-356 (General Purpose Warehouse).	54
BUILDING NO. 728 (General Purpose Warehouse).	64

Accession For	
NTIS CRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification <i>per TIR</i>	
By _____	
Distribution /	
Availability Codes	
Dist	Avail and/or Special
<i>A-1</i>	

INDEX OF REPORTS

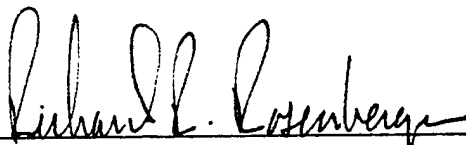
- VOLUME ONE: Group IV Utility Systems Property
(Building No. 321)
- VOLUME TWO: Group IV Utility Systems Property
(Building No. 325)
- VOLUME THREE: Group IV Utility Systems Property
(Remaining Group IV Properties and
Utility Systems)
- VOLUME FOUR: Group II Chemical Plant Property
(Building Numbers 311, 333, 335,
336, 356, and 728)
- VOLUME FIVE: Group IV Utility Systems Property
(Water Distribution System)

C E R T I F I C A T E

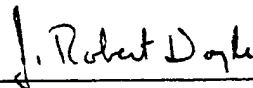
The undersigned Mr. Richard R. Rosenberger and Mr. J. Robert Doyle of Harland Bartholomew & Associates, Inc., St. Louis, Mo, as Architect/Engineer Contractor for the US Army Corps of Engineers, Omaha District, hereby certify that a PROPERTY INVENTORY AND CONDITION SURVEY was performed for the Group II Chemical Plant Property and the Group IV Utility Systems Property within the Shell Oil Company Leasehold area at the US Army Rocky Mountain Arsenal between 23 August 1982 and 15 September 1982 and that the following report and accompanying volumes correctly describe the existence and condition of the facilities therein as of 15th day of September 1982.

Signed this 6th day of October 1982

HARLAND BARTHOLOMEW & ASSOCIATES, INC.



Richard R. Rosenberger, P.E.
Associate and Project Manager



J. Robert Doyle, P.E.
Resident Engineer

FOREWORD

This PROPERTY INVENTORY AND CONDITION SURVEY has been prepared by Harland Bartholomew & Associates, Inc. under the direction of the US Army Corps of Engineers, Omaha District, and in accordance with the provisions contained in Contract No. DACA 45-82-C-0035, Modification No. P00001. Portions of this contract outlining the specific responsibilities of the Contractor in regard to the inventory and condition surveys of the Group II and Group IV properties are as follows:

4. WORK TO BE ACCOMPLISHED BY THE CONTRACTOR.

a. The Contracting Officer will provide the contractor the original, or a copy of the lease agreement, and all subsequent supplement agreements and exhibits. The contractor will be required to thoroughly familiarize himself with all provisions of the lease agreements. Particular attention shall be paid to Supplement Agreement No. 5 with Exhibits G and H-1 through H-14 and Supplement Agreement No. 22.

b. The contractor shall utilize the existing condition surveys and inventory information of the Group II, and the Group IV properties to conduct a new condition survey and inventory of the Group II and Group IV properties, identified below. The new survey shall be performed in the same format as the old survey, all property items not shown on the existing survey shall be properly identified on the new survey. All property shown on the existing survey and not found on the new survey shall be noted. The contractor will not be responsible to determine ownership, but to merely identify each and every item and condition that has to be resolved in negotiations between the U.S. Government and Shell Oil Corp. All discrepancies shall be clearly pointed out. Photographs are required which will allow government negotiators to compare current conditions with prior conditions. All property previously photographed shall be rephotographed to the best extent possible. the contractor's

FOREWORD

(Continued)

inspection teams shall invite a representative of the U.S. Government and a representative of Shell Oil Corp. to accompany the survey team. The Group IV conditional survey and inventory shall be completed first. The Group II conditional survey and inventory shall be completed after the Group IV inventory has been submitted. The Contracting Officer will provide the original, or a copy of what is available, of subsequent conditional surveys and inventory of leased property, of Group II and Group IV properties that was performed at the time the facility was leased to Shell Oil Corp. There are six buildings included in the Group II leasehold and approximately 28 structures, adjacent land areas, and three lakes in the Group IV lease. These are tentatively identified as follows:

GROUP II BUILDINGS

<u>BUILDING/ FACILITY NO.</u>	<u>DESIGNATION</u>	<u>SIZE</u>
311	Post cafeteria general warehouse	4,597 S.F.
333	General purpose warehouse	11,037 S.F.
335	General purpose warehouse (Including 47 items of "Hastelloy" equipment)	11,037 S.F.
336	General purpose warehouse	11,037 S.F.
356	General purpose warehouse	11,637 S.F.
728	General purpose warehouse	22,775 S.F.

GROUP IV UTILITIES

<u>BUILDING/ FACILITY NO.</u>	<u>DESIGNATION</u>	<u>SIZE</u>
321	Central heat plant gas	56,479 S.F.

FOREWORD

(Continued)

<u>BUILDING/FACILITY NO.</u>	<u>DESIGNATION</u>	<u>SIZE</u>
321A	Tank Storage	
321B	Tank Storage	
321C	Tank Storage	
321D	Tank Storage	
321E	Tank Storage	416,000 Gal.
322	Coal sampling building	336 S.F.
322A	Tractor storage shed	556 S.F.
323	Ash handling hopper	3,600 C.F.
325	Elec. power plant gas	16,500 S.F.
326	Water pump plant	613 S.F.
337	Change House	588 S.F.
361	Sub. Station	
371	Water pump building	3,500 S.F.
372	Reservoir	1,000,000 Gal.
372A	Chlorination Station	64 S.F.
375	Well House	56 S.F.
378	Water treatment plant chlor. station No. 1	84 S.F.
381	Chlorination station No. 3	84 S.F.
382	Water treatment plant	68 S.F.
385	Water pump station NP	146 S.F.
386	Water pump	146 S.F.
387	Water pump NP #3	112 S.F.
462B	Fuel Oil Storage Tank	417,000 Gal.
548	Water pump NP	2,206 S.F.
549	Cooling tower	8,802 S.F.
551	Elev. wate tank NP .	500,000 Gal.
552	Valve Pit	
-	South Plants Lakes	

FOREWORD

(Continued)

In addition to the buildings or structures noted above, all utility systems within the Shell Leasehold shall be included in the Group IV inventory and condition survey. These involve electrical, steam, potable and process water, and other utilities. Also, there are extensive amounts of equipment leased to Shell which must have a condition survey and inventory.

g. (1) The contractor shall review the past maintenance records of Rocky Mountain Arsenal's Water Distribution System, presently being operated by Shell Oil Corp. All maintenance records will be acquired from Shell Oil Corp. From these past maintenance records, the contractor shall develop a report which projects the yearly estimated maintenance and repair expenditures of the water distribution system. This report shall give a five-year projection of all maintenance and repair cost.

(2) The contractor shall attend a pre-start meeting at Rocky Mountain Arsenal. The contractor shall present a proposed inventory schedule to the U.S. Government and Shell Oil Corp. representatives. Other reporting information shall be included in the meetings as outlined in the basic contract.

6. SUBMITTALS.

a. The Group IV utilities condition and inventory survey shall be completed within 35 days after receipt of the NTP. Fifteen copies of the report shall be provided to the Contracting Officer.

b. The Group II buildings condition and inventory survey shall be completed within 55 days after receipt of the NTP. Fifteen copies of the report shall be provided to the Contracting Officer.

FOREWORD

(Continued)

Personnel from Harland Bartholomew & Associates, Inc. participating in the field evaluations, research, and report preparation aspects of the property inventory and condition surveys are identified in Section 1.00: GENERAL, of each Building/Facility report. Personnel from Shell Oil Company and the US Army Rocky Mountain Arsenal offering technical assistance to the evaluation teams are also acknowledged in this section. The Contractor is extremely grateful of the degree of cooperation and valuable assistance offered them by representatives of Shell Oil Company and the Arsenal to insure the accuracy and timely completion of this report.

For assistance in the field evaluation, research and report preparation for Building No. 321, Building No. 325 and other selected facilities in the Shell Oil Company leasehold area the Contractor has engaged the firm of Gilbert/Commonwealth, Commonwealth Associates, Inc. under a subcontract agreement. Personnel from Commonwealth Associates, Inc. participating in this portion of the Group II and Group IV property surveys are identified in Section 1.00: GENERAL, of the respective Building/Facility reports.

The overall field investigations and condition surveys for the Group IV: Utility Systems Properties were initiated on 23 August 1982 and completed on 15 September 1982. The actual date (or dates) that the physical survey was accomplished is entered in Section 1.00: GENERAL, of the individual Building/Facility reports. Field surveys of the Group II: Chemical Plant Properties commenced on 13 September 1982 and were completed on 15 September 1982. The existence and condition of the buildings, facilities and equipment outlined in this report and accompanying reports of the Group II and Group IV properties are considered to reflect the information obtained by the field evaluation teams as of the date indicated on the individual survey reports. Additions or removals of property after 15 September 1982 are not contained herein.

CRITERIA

Pursuant to the requirements contained in Article 4, Paragraph b (work to be accomplished by contractor), this PROPERTY INVENTORY AND CONDITION SURVEY and accompanying volumes has been prepared in a format similar to previous condition surveys performed for the Group II and Group IV properties. Some license was taken by the Contractor to standardize the individual condition report format to include the following decimal notation:

- 1.00 GENERAL
- 2.00 DESCRIPTION OF BUILDING/FACILITY
- 3.00 PRESENT CONDITION
 - .10 Exterior
 - .20 Interior (by rooms)
- 4.00 RECORD OF INSTALLED EQUIPMENT
- 5.00 PHOTOGRAPHS

Photographs of the various buildings, facilities and equipment were taken on the dates noted under each photograph in Section 5.00. To the extent practicable, views were selected to match previous photographs taken during the 01 February 1950 condition surveys. New photographs were taken of additional equipment installed after the previous surveys.

During the progress of the field surveys, each item listed in previous surveys as well as newly installed items were inspected by the field evaluation teams and conditions noted at the time of the survey. The terms used in denoting the present condition of architectural, structural, mechanical, electrical and finish features of the buildings and facilities are as follows:

VERY GOOD CONDITION (VG)

A reasonably high order of perfection when compared to similar types of installations or structures of the same age.

CRITERIA

(Continued)

GOOD CONDITION (G)

Better than average condition when compared to similar types of installations or structures of the same age.

FAIR CONDITION (F)

Average or typical of the condition of similar types of installations or structures of the same age.

POOR CONDITION (P)

Below average condition when compared to similar types of installations or structures of the same age.

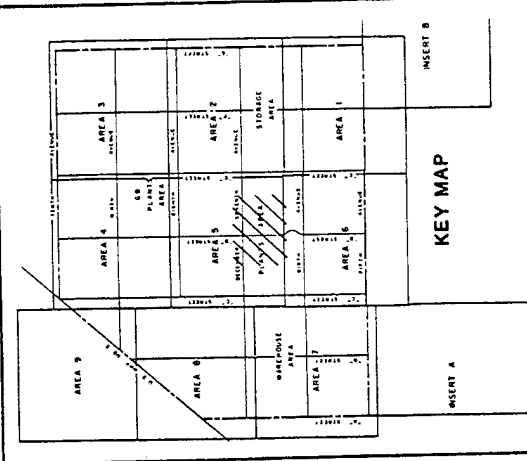
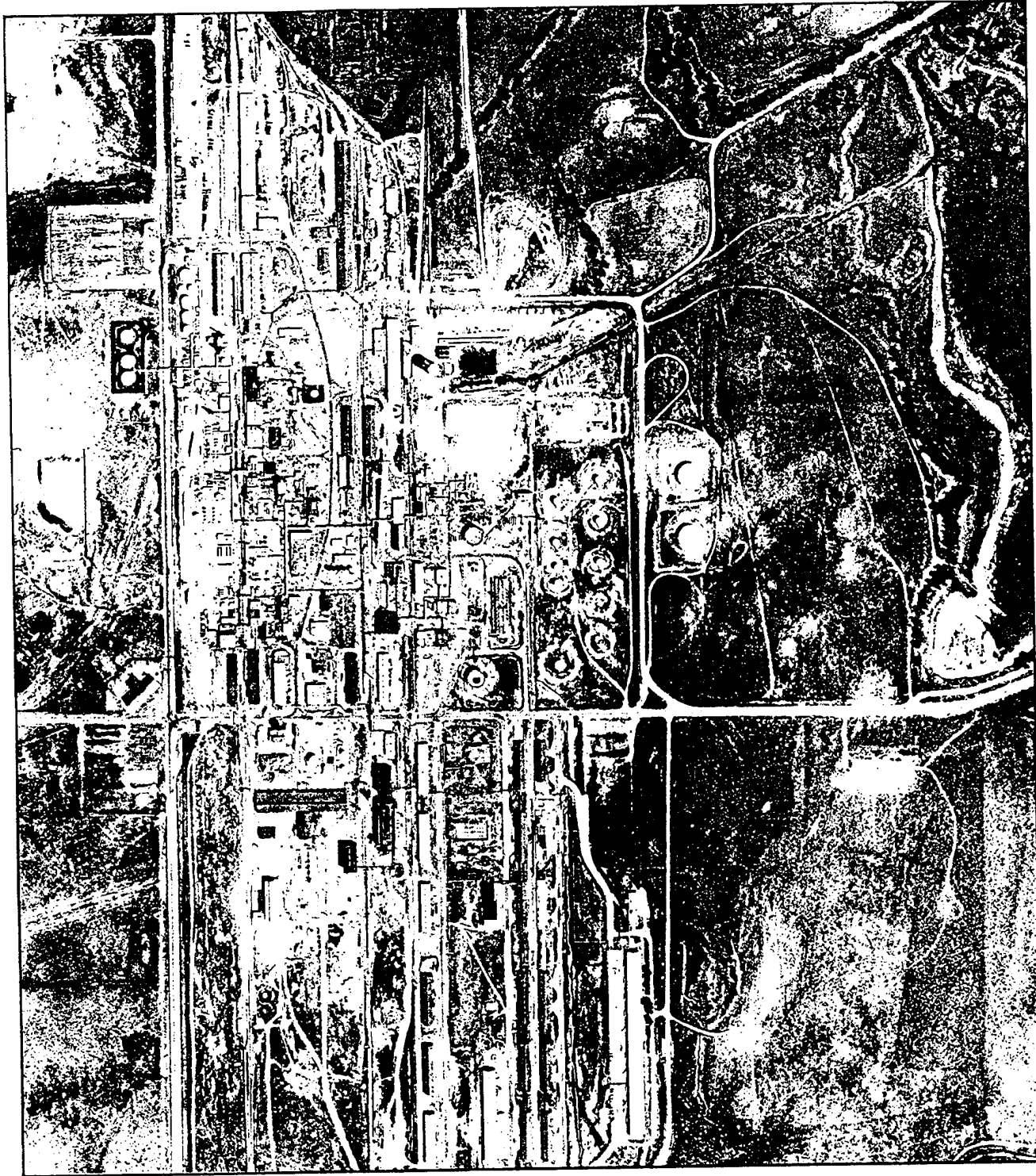
REPAIRS NEEDED (RN)

Condition of installation or structure is such that repairs or service is needed.

The code used to describe the condition of equipment entered under Section 4.00 RECORD OF INSTALLED EQUIPMENT is as follows:

<u>Term</u>	<u>Meaning</u>
N	New
E	Used, Reconditioned
O	Used, Usable w/o Repairs
R	Used, Unserviceable

<u>Term</u>	<u>Meaning (with percent of usable life remaining)</u>
1	Excellent (90-100)
2	Good (75-90)
3	Fair (50-75)
4	Poor (below 50)



AERIAL PHOTOGRAPH **DATE OF FLIGHT : 16 AUGUST 1982**

Property Inventory and Condition Survey
 by the
 Group IV Utility Systems Property
 and
 Group II Chemical Plant Property
 within the
 Shell Oil Company Leasehold Area
 US Army Rocky Mountain Arsenal
 Commerce City CO

prepared by:
 Harland Bartholomew & Associates, Inc.
 St. Louis MO
 and
 Gilbert/Commonwealth
 Commonwealth Associates Inc.
 27 September 1982



APPROXIMATE SCALE 1" = 485'

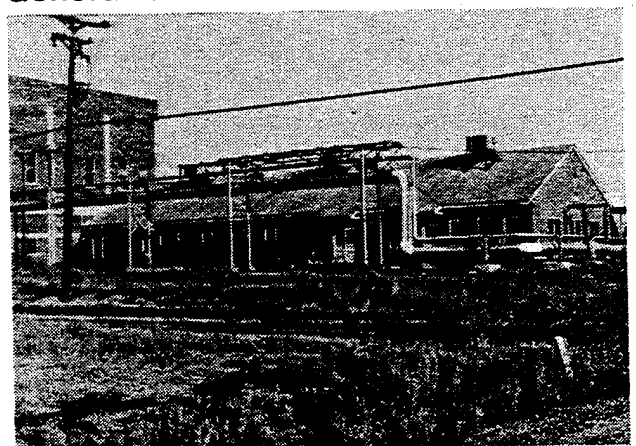
AERIAL PHOTOGRAPH BY:
 COLORADO AERIAL PHOTO SERVICE
 DENVER, CO.

Property Inventory and Condition Survey
for the
Group IV Utility Systems Property
and
Group II Chemical Plant Property
within the
Shell Oil Company Leasehold Area
at
US Army Rocky Mountain Arsenal
Commerce City, CO

prepared by
Harland Bartholomew & Associates, Inc.
St. Louis, MO

11 October 1982

BUILDING NO. 311
General Storehouse



BUILDING NO. 311
GENERAL STOREHOUSE

1.00 GENERAL

.10 Date of Property Inventory and Building Condition Survey:

14 September 1982

.20 Survey Personnel:

Albert W. Wilmarth, Harland Bartholomew & Associates, Inc.

Kenneth C. Owings, Harland Bartholomew & Associates, Inc.

.30 Technical Assistance:

Roger Reed, Shell Oil Company

.40 Photography:

Gary R. Smith, Harland Bartholomew & Associates, Inc.

.50 Category Code (AR415-28):

44270

.60 Size of Building/Facility:

40'-8" x 108'48"

? Assume 8.2"

.70 Year Built:

1942

.80 Original Plans Prepared by:

Whitman, Requardt and Smith

H. A. Kuljian and Company, Engineers

Denver, Colorado

2.00 DESCRIPTION OF BUILDING/FACILITY. This building is a one story structure with concrete foundation, wood and concrete floors, 8"

BUILDING NO. 311

GENERAL STOREHOUSE

structural tile walls and composition shingles over a wood sheathing. Water, sewer, steam and electricity are available. It was originally built as a cafeteria, but is now used for general storehouse.

3.00 PRESENT CONDITION. Building 311 is in fair (F) condition. The estimated remaining useful life as of September 1982, with minimum maintenance and no building use change, is 10 years.

.10 Exterior: Building No. 311

Foundation: Concrete walls (G).

Wall Finish: Tile with brick columns (G), minor cracks have been repaired.

Windows: Wood sash (P) need paint.

Doors: Wood panel glazed (P).

Roofing: Asphalt shingles (P).

Paint Finish: Doors and windows (P).

Miscellaneous: Concrete walks at southwest and southeast sides of building are poor (P).

In general the exterior is in poor (P) condition.

.20 Interior: Building No. 311

Floor Finish: Linoleum (P).

Walls: Tile (G). Celotex (G).

Ceiling: Sheetrock (F).

Windows: Wood sash (P) a few cracked panes.

Doors: Wood panel and wood panel glazed (F).

? wrong bldg?
thought the roof
was okay.

BUILDING NO. 311

GENERAL STOREHOUSE

Electric Fixtures: Eight, two tube fluorscent fixtures (G); four, three tube fluorescent fixtures (G); forty-five incandescent fixtures with globes (G).

Plumbing: Two toilet bowls (G), two lavatories (F).

Heating: Seventeen steam radiators (G).

Miscellaneous: In general the interior is in fair (F) condition.

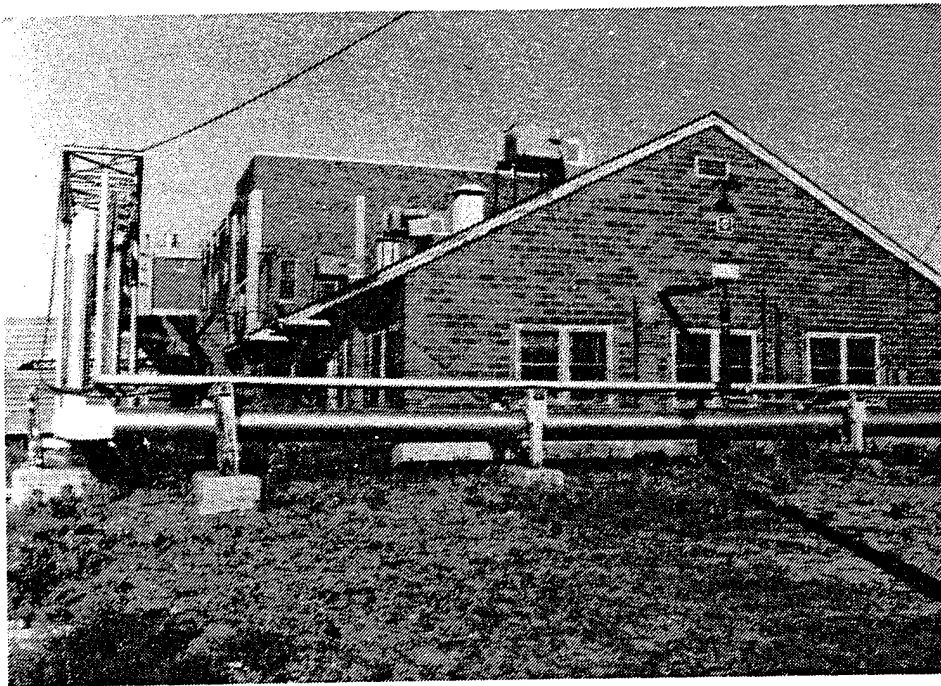
BUILDING NO. 311

GENERAL STOREHOUSE

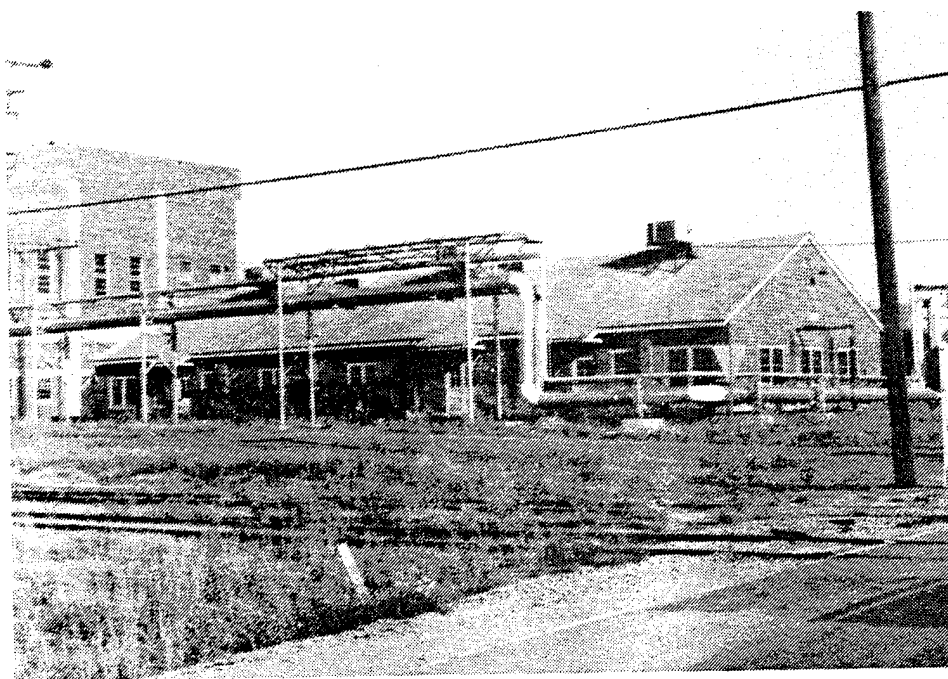
4.00 RECORD OF INSTALLED EQUIPMENT.

<u>Quantity</u>	<u>Article, Type and Model</u>	<u>Size</u>	<u>Manufacturer</u>	<u>Previous Condition Code</u>	<u>Current Condition Code</u>	<u>Remarks</u>
1	Walk-in Refrigerator	7' x 7' x 8'	N/A	N/A *	(R-3)	Compressor Removed 3
1	Hot Water Generator	330 gal.	N/A	N/A	(0-3)	S/N-3336
2	Toilet Bowls	N/A	N/A	N/A	(0-3)	
2	Lavatories	18" x 20"	N/A	N/A	(0-3)	
1	Hot Water Heater	40 gal.	Westinghouse	N/A	(0-2)	
3	Air Conditioning Units	5 ton	York	N/A	(0-3)	
1	Blower	18"	Airex	N/A	(0-3)	Motor missing 3

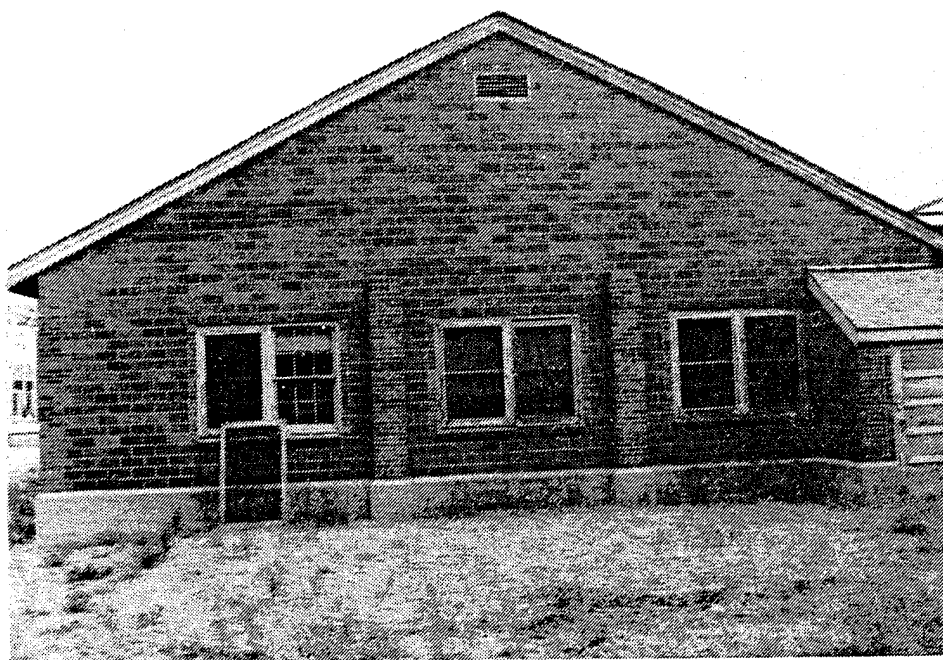
* N/A Under Previous Condition Code indicates condition coding was not included in original Condition Survey and Inventory Reports. (Typical for all Buildings)



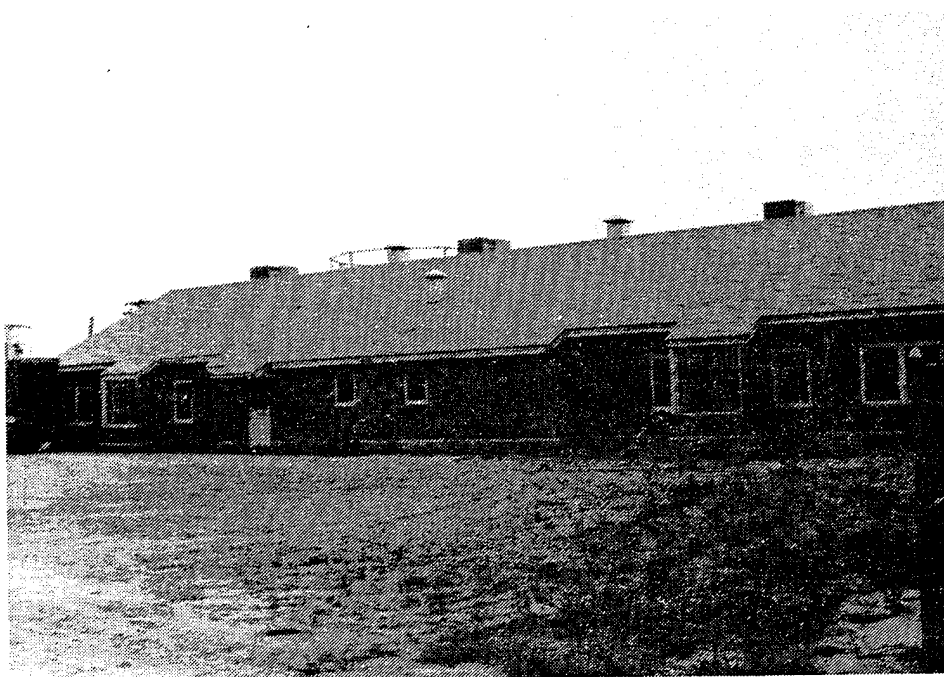
Building No. 311: General View
East Side
Date of Photograph: 22 September 1982



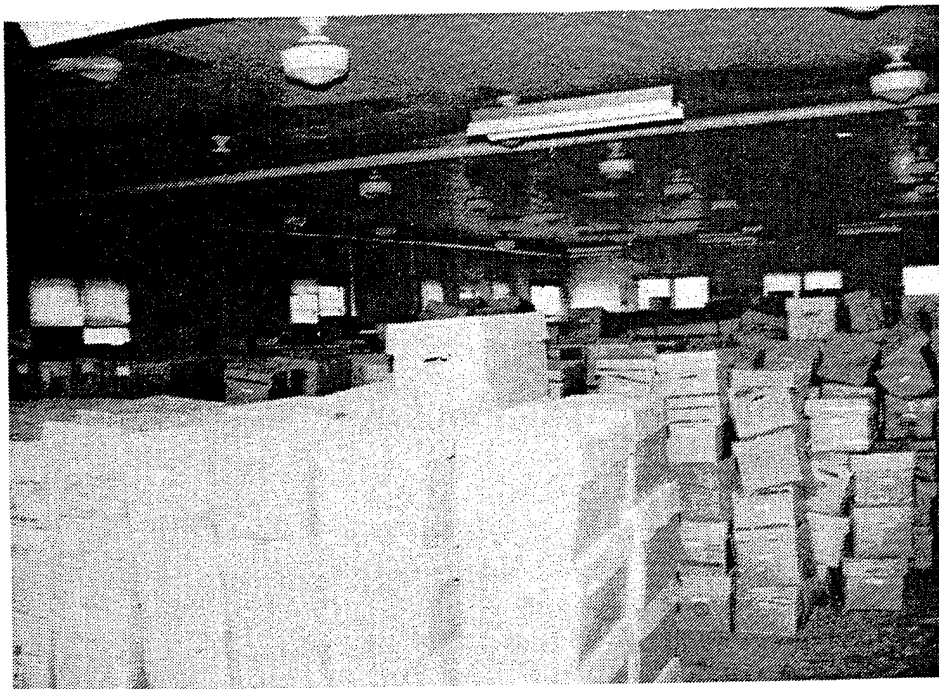
Building No. 311: General View
South Side
Date of Photograph: 22 September 1982



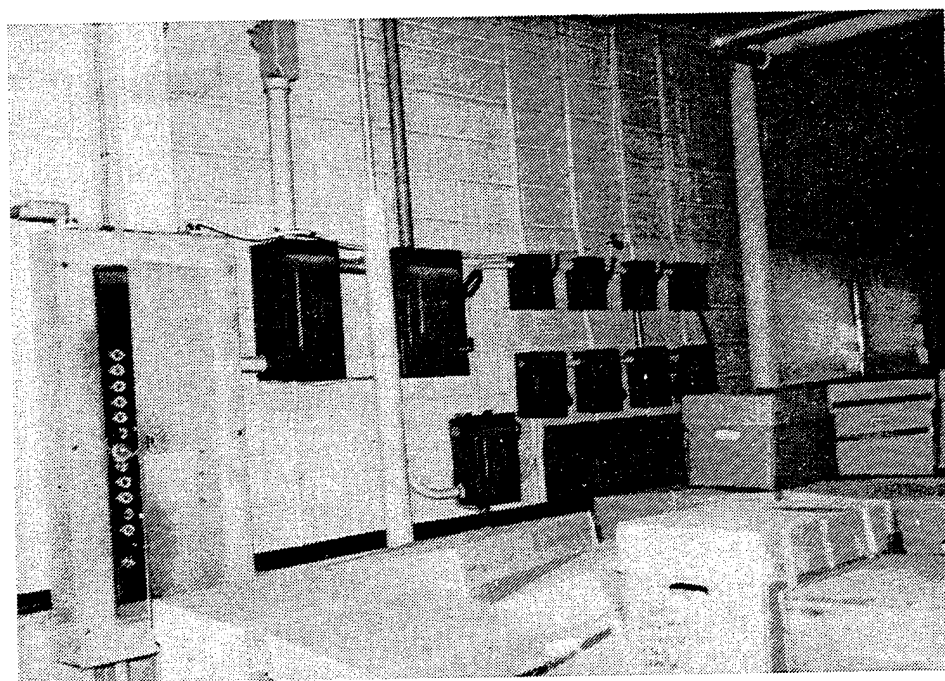
Building No. 311: General View
West Side
Date of Photograph: 22 September 1982



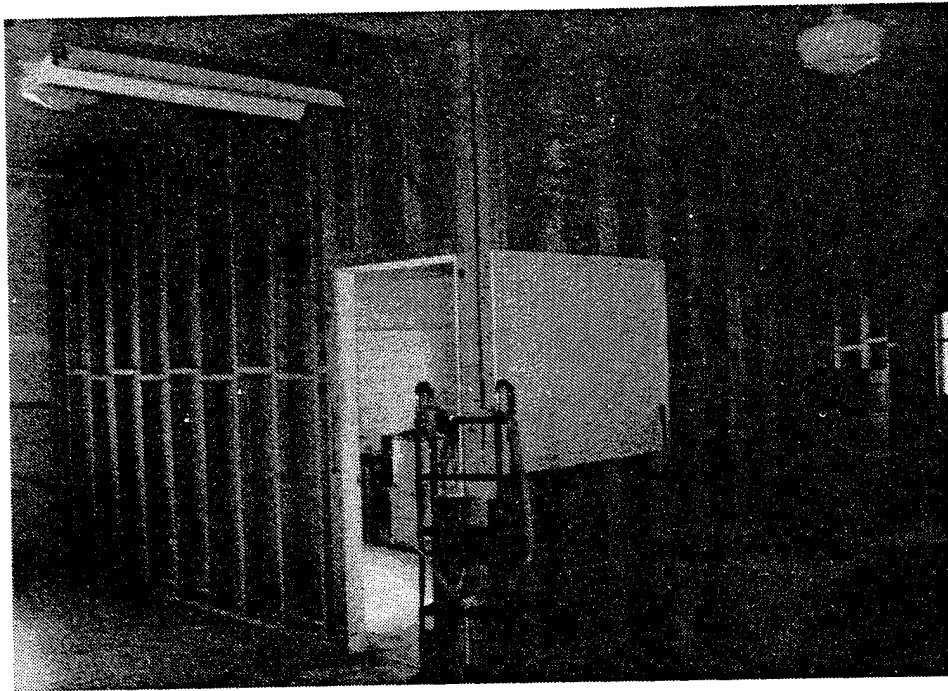
Building No. 311: General View
North Side
Date of Photograph: 22 September 1982



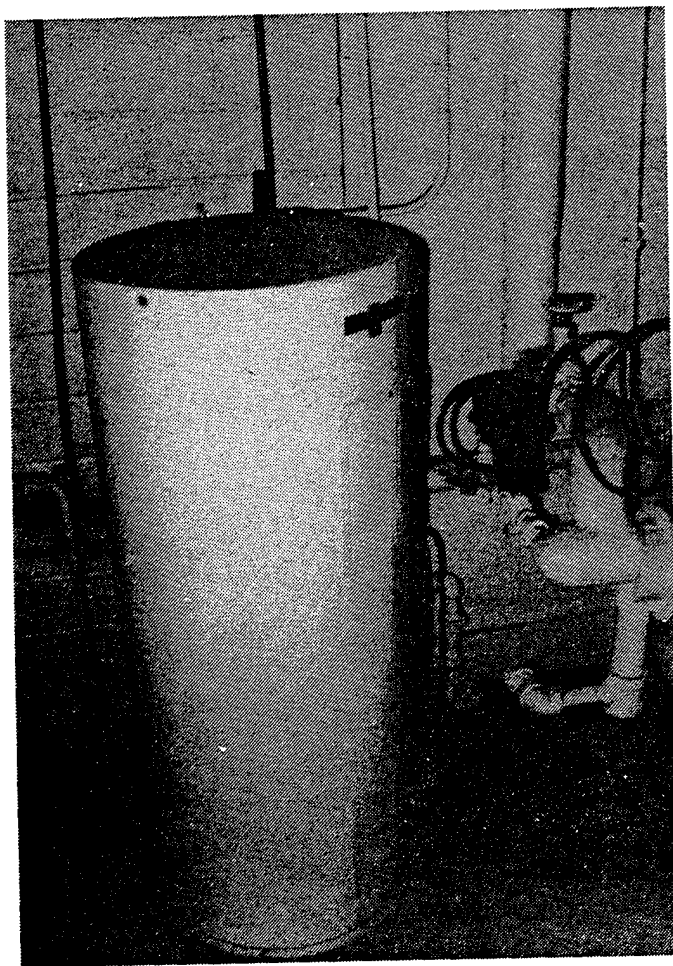
Building No. 311: General View
 Interior (Looking West)
 Date of Photograph: 22 September 1982



Building No. 311: General View
 Interior
 Date of Photograph: 22 September 1982



Building No. 311: General View
Interior (Looking East)
Date of Photograph: 22 September 1982



Building No. 311: General View
Interior
Date of Photograph: 22 September 1982

Property Inventory and Condition Survey
for the
Group IV Utility Systems Property
and
Group II Chemical Plant Property
within the
Shell Oil Company Leasehold Area
at
US Army Rocky Mountain Arsenal
Commerce City, CO

prepared by
Harland Bartholomew & Associates, Inc.
St. Louis, MO

11 October 1982

BUILDING NO.T-333
General Purpose Warehouse



BUILDING NO. T-333
GENERAL PURPOSE WAREHOUSE

1.00 GENERAL

.10 Date of Property Inventory and Building Condition Survey:

13 September 1982

.20 Survey Personnel:

Albert W. Wilmarth, Harland Bartholomew & Associates, Inc.

Kenneth C. Owings, Harland Bartholomew & Associates, Inc.

.30 Technical Assistance:

Roger Reed, Shell Oil Company

.40 Photography:

Gary R. Smith, Harland Bartholomew & Associates, Inc.

.50 Category Code (AR415-28):

44220

.60 Size of Building/Facility:

45'-10" x 240'-10"

.70 Year Built:

1943

.80 Original Plans Prepared by:

Whitman, Requardt and Smith

H. A. Kuljian and Company, Engineers

Denver, Colorado

2.00 DESCRIPTION OF BUILDING/FACILITY. Warehouse No. T-333 is a one story structure with concrete foundation and floor. It is wood frame

BUILDING NO. T-333

GENERAL PURPOSE WAREHOUSE

construction, with Asbestos Protected Metal siding over Cel-O-Tex walls and asphalt shingled roof. Fire protection is provided by a sprinkler system and extinguishers. Railroad and truck loading docks are available.

3.00 PRESENT CONDITION: Building No. T-333 is in a generally fair condition (F). The estimated remaining useful life as of September 1982, with minimum maintenance and no building use change, is 10 years.

.10 Exterior: Building No. T-333

Foundation: Concrete wall (F).

Wall finish: Asbestos Protected Metal (F).

Windows: None

Doors: Wood sliding warehouse doors (F). One of the doors on the

2 north side of the building is poor (P).

Roof: Asphalt shingle (F).

Roof framing: Wood rafters (G).

2 Paint finish: Doors and trim (P).

Ventilators: Metal ventilators (G).

Miscellaneous: Concrete loading dock adjacent to the railroad tracks is cracked and spalled and requires repair (RN).

In general the exterior of the building is in fair (F) condition.

.20 Interior: Building No. T-333

Floor Finish: Concrete (G).

Wall Finish: Open wood stud (F).

BUILDING NO. T-333

GENERAL PURPOSE WAREHOUSE

Ceiling: Open wood rafter (G).

Windows: None

Doors: Wood sliding warehouse doors (F).

Electric Fixtures: Incandescent RCM fixtures (G).

Plumbing: None

Heating: One Webster Nesbitt unit heater (G); one unit heater make
unknown, fan blades missing (P)

Miscellaneous: In general, the interior of the building is in fair
(F) condition.

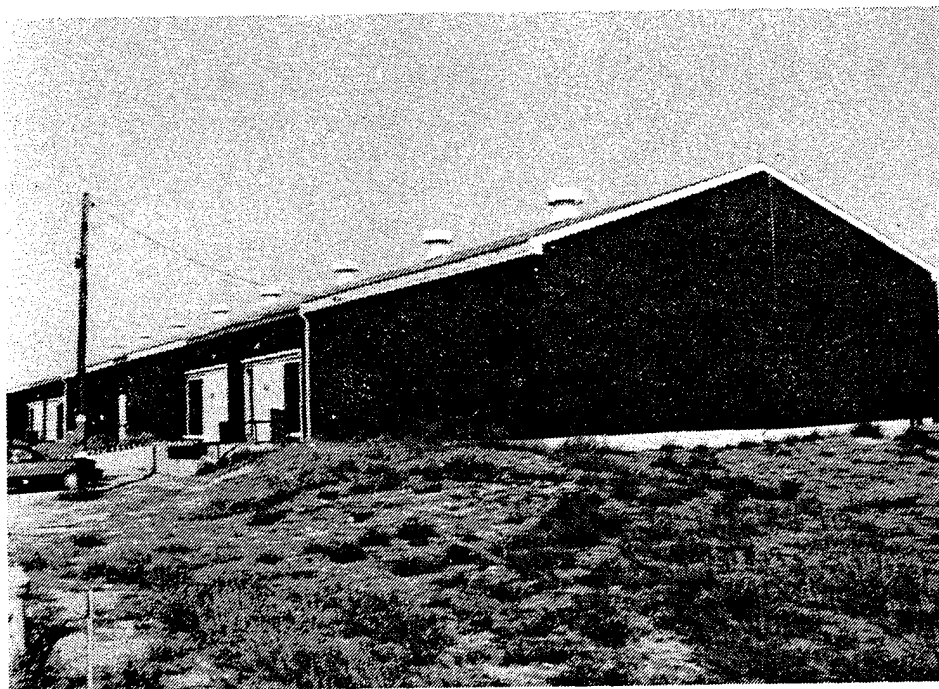
BUILDING NO. T-333

GENERAL PURPOSE WAREHOUSE

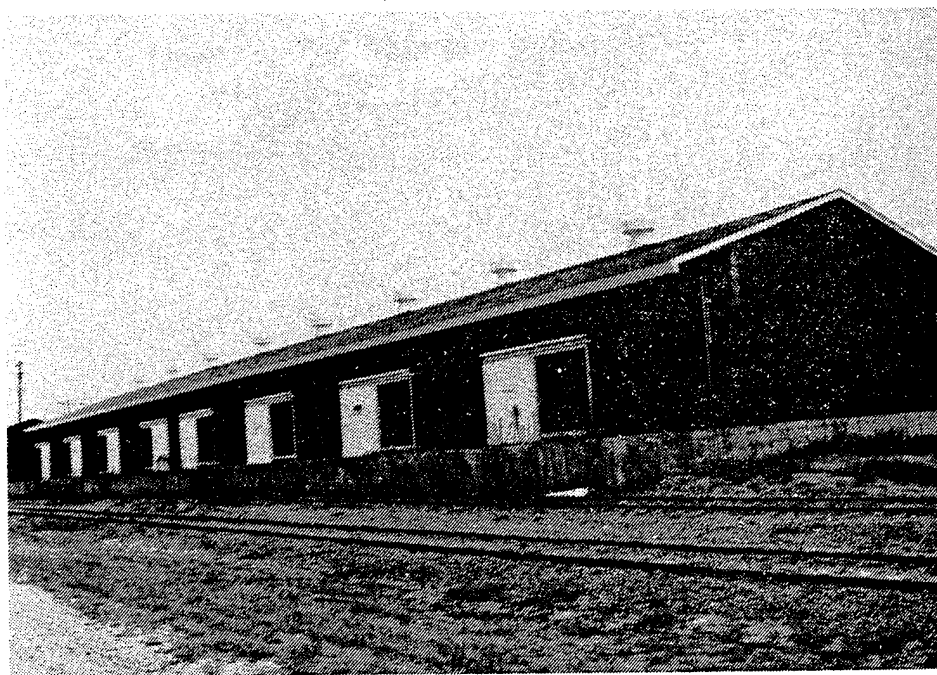
4.00 RECORD OF INSTALLED EQUIPMENT.

<u>Quantity</u>	<u>Article, Type and Model</u>	<u>Size</u>	<u>Manufacturer</u>	<u>Previous Condition Code</u>	<u>Current Condition Code</u>	<u>Remarks</u>
1	Fan, Vent	32"	Aerovent	G	(0-3)	
1	Motor, Electric	1/2 hp	Leland	N/A *	(0-3)	S/N-8904PD22141
1	Heater-Unit Steam	33-1/4"	Webster-Nesbitt	N/A	(0-3)	
1	Motor, Electric	1/3 hp	Century	N/A	(0-3)	S/N A-9-7
1	Heater-Unit Steam	2300 cfm	John Nesbitt	N/A	(0-2)	
1	Motor, Electric	1/6 hp	Century	N/A	(0-2)	

* N/A Under Previous Condition Code indicates condition coding was not included in original Condition Survey and Inventory Reports. (Typical for all Buildings)



Building No. 333: General View
 (Looking Northwest)
 Date of Photograph: 22 September 1982



Building No. 333: General View
 (Looking Southeast)
 Date of Photograph: 22 September 1982



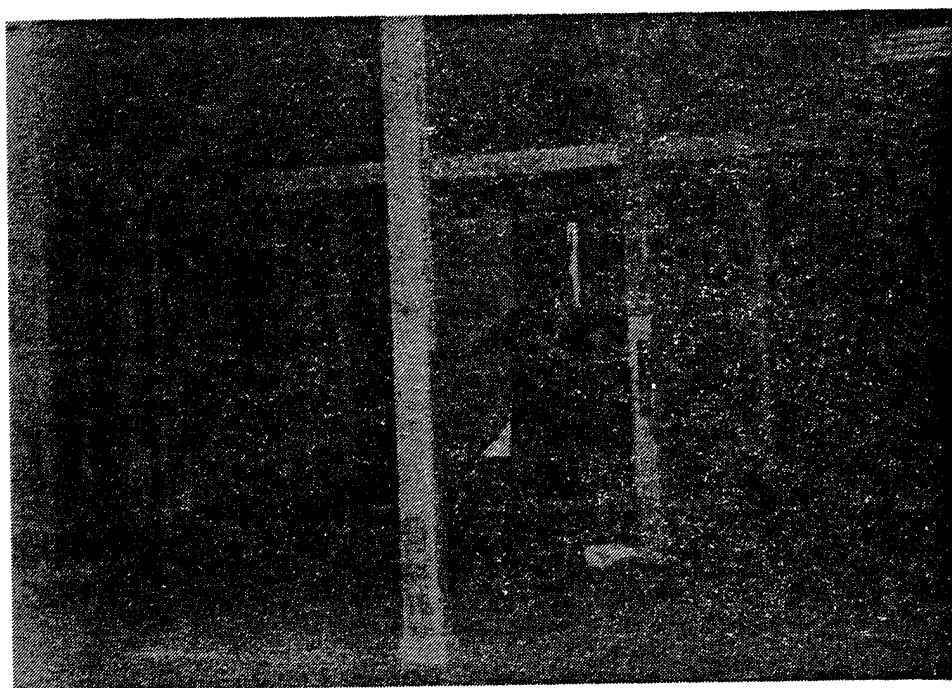
Building No. 333: Loading Dock
 (Looking East)
 Date of Photograph: 22 September 1982



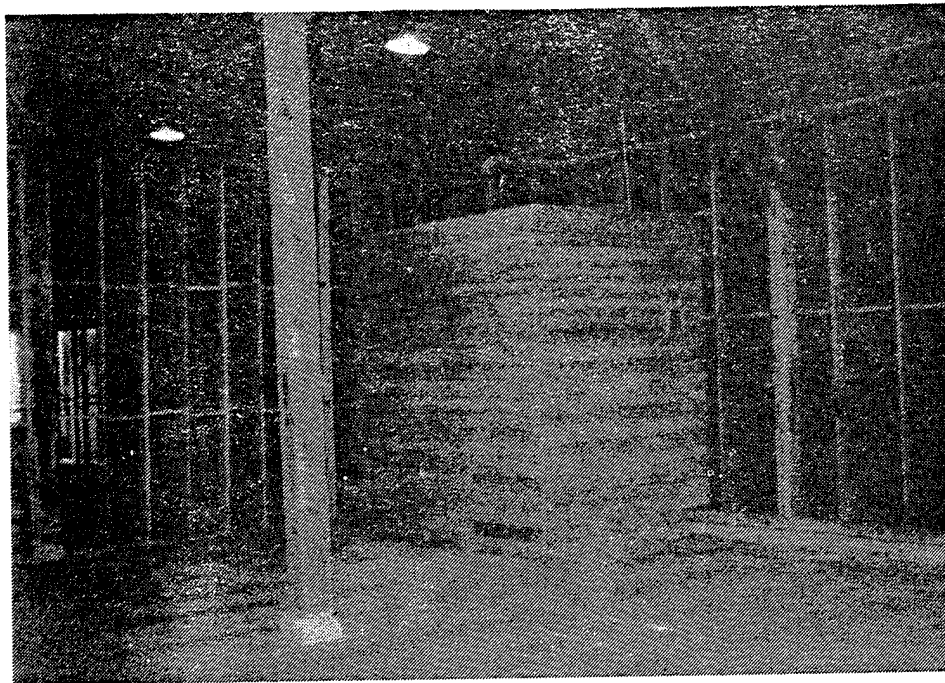
Building No. 333: Loading Dock
 (Looking West)
 Date of Photograph: 22 September 1982



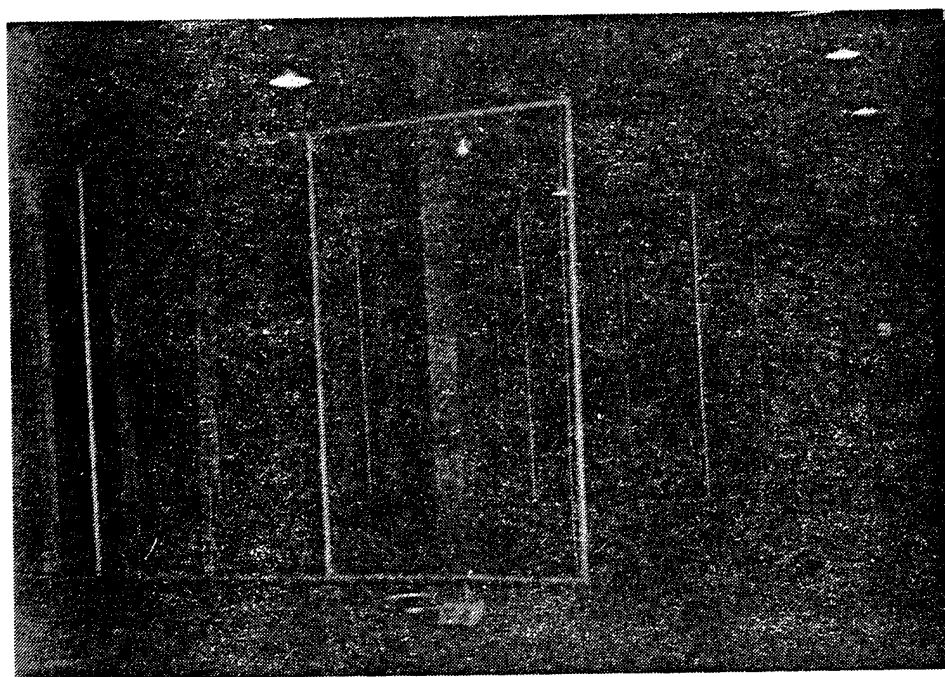
Building No. 333: General View
Loading Docks (South Side)
Date of Photograph: 22 September 1982



Building No. 333: View of
Interior
Date of Photograph: 22 September 1982



Building No. 333: View of
Interior
Date of Photograph: 22 September 1982



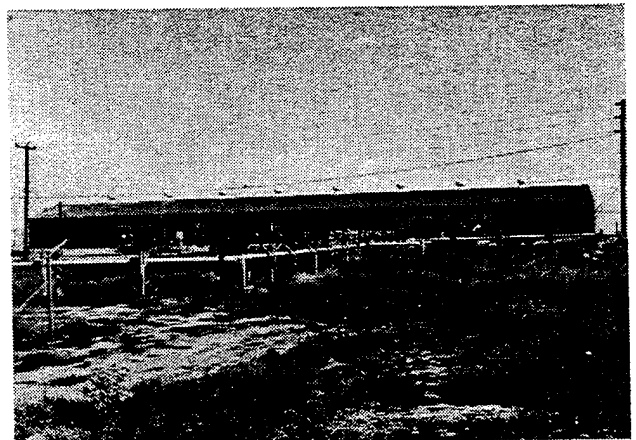
Building No. 333: View of Interior
Date of Photograph: 22 September 1982

Property Inventory and Condition Survey
for the
Group IV Utility Systems Property
and
Group II Chemical Plant Property
within the
Shell Oil Company Leasehold Area
at
US Army Rocky Mountain Arsenal
Commerce City, CO

prepared by
Harland Bartholomew & Associates, Inc.
St. Louis, MO

11 October 1982

BUILDING NO. T-335
General Purpose Warehouse



BUILDING NO. T-335
GENERAL PURPOSE WAREHOUSE

1.00 GENERAL

.10 Date of Property Inventory and Building Condition Survey:

13 September 1982

.20 Survey Personnel:

Albert W. Wilmarth, Harland Bartholomew & Associates, Inc.

Kenneth C. Owings, Harland Bartholomew & Associates, Inc.

.30 Technical Assistance:

Roger Reed, Shell Oil Company

.40 Photography:

Gary R. Smith, Harland Bartholomew & Associates, Inc.

.50 Category Code (AR415-28):

44220

.60 Size of Building/Facility:

45'-10" x 240'-10"

.70 Year Built:

1943

.80 Original Plans Prepared by:

Whitman, Requardt and Smith

H. A. Kuljian and Company, Engineers

Denver, Colorado

2.00 DESCRIPTION OF BUILDING/FACILITY. Building No. T-335 is a one story structure with concrete foundation and floor. It is wood frame

BUILDING NO. T-335

GENERAL PURPOSE WAREHOUSE

construction with Asbestos Protected Metal siding over Cel-O-Tex and asphalt shingled roof. Fire protection is provided by extinguishers and a sprinkler system. Railroad and truck loading docks are provided.

3.00 PRESENT CONDITION: Building No. T-335 is in a fair (F) condition. The estimated remaining useful life as of September 1982, with minimum maintenance and no building use change, is 10 years.

.10 Exterior: Building No. T-335

Foundation: Concrete wall (G).

Wall finish: Asbestos Protected Metal (F).

Windows: None

Doors: Wood sliding warehouse doors (G).

Roof: Asphalt shingle (F).

Roof framing: Wood rafters (G).

2 Paint finish: Doors and trim (P).

Ventilators: Metal ventilators (G).

Miscellaneous: In general the exterior of the building is in fair (F) condition.

.20 Interior: Building No. T-335

Floor Finish: Concrete (G).

Wall Finish: Open wood stud (F).

Ceiling: Open wood rafter (G).

Windows: None

BUILDING NO. T-335

GENERAL PURPOSE WAREHOUSE

Doors: Wood sliding warehouse doors (F).

Electric Fixtures: Incandescent RCM fixtures (G).

Plumbing: None

Heating: None

Miscellaneous: The condition of the interior is fair (F).

BUILDING NO. T-335

GENERAL PURPOSE WAREHOUSE

4.00 RECORD OF INSTALLED EQUIPMENT.

<u>Quantity</u>	<u>Article, Type and Model</u>	<u>Size</u>	<u>Manufacturer</u>	<u>Previous Condition Code</u>	<u>Current Condition Code</u>	<u>Remarks</u>
1	Fan, Ventilating	36"	Dayton	N/A *	(0-2)	
1	Motor, Electric	1/2 hp	Dayton	N/A	(0-2)	

* N/A Under Previous Condition Code indicates condition coding was not included in original Condition Survey and Inventory Reports. (Typical for all Buildings)

BUILDING NO. T-335

GENERAL PURPOSE WAREHOUSE

- .10. The following items of Hastellay equipment were understood by A/E contract to be stored in this building. No Hastellay equipment was found. The Shell representative did not know where they were being stored.

<u>Item</u>	<u>U.S. Tag No.</u>
Tank, 285-gal. Hast.	06-09-002184
Tank, 100-gal. Hast.	06-09-002197
Tank, 120-gal. Hast.	06-09-002198
Tank, 120-gal. Hast.	06-09-002199
Tank, 120-gal. Hast.	06-09-002200
Tank, 120-gal. Hast	06-09-002201
Tank, 1630-gal. Hast.	06-09-002217
Tank, 42-gal. Hast.	06-09-002266
Tank, 42-gal. Hast.	06-09-002268
Tank, 90-gal. Hast.	06-09-002451
Tank, 90-gal. Hast.	06-09-002453
Agitator, 24", Hast.	06-09-003534
Agitator, 6", Hast.	06-09-010461
Agitator, 6", Hast.	06-09-010462
Agitator, 6", Hast.	06-09-010463
Heat Exchanger, 147 Ft ² , Steel	06-09-002284
Heat Exchanger, 147 Ft ² , Steel	06-09-002285
Heat Exchanger, 169 Ft ² , Hast.	06-09-002379

BUILDING NO. T-335

GENERAL PURPOSE WAREHOUSE

<u>Item</u>	<u>U.S. Tag No.</u>
Heat Exchanger, 169 Ft ² , Hast.	06-09-002380
Heat Exchanger, 60 Ft ² , Hast.	06-09-002399
Heat Exchanger, 60 Ft ² , Hast.	06-09-002400
Transmitter, Press, 0-100 lb.	06-09-005430
Transmitter, Press, 0-15 lb.	06-09-005431
Transmitter, Press, 0-60 lb.	06-09-007526
Liquid Levelmeter, 0-64", Hast.	06-09-003849
Liquid Levelmeter, 0-48", Hast.	06-09-005874
Liquid Levelmeter, 0-60", Hast.	06-09-006058
Liquid Levelmeter, 0-132", Iron	06-09-007630
Liquid Levelmeter, 0-132", Iron	06-09-007631
Liquid Levelmeter, 0-132", Iron	06-09-007632
Liquid Levelmeter, 0-132", Iron	06-09-007633
Pump, Centrif., Hast.	06-09-001527
Pump, Turbine, Hast.	06-09-002987
Pump, Turbine, Hast.	06-09-002988
Pump, Turbine, Hast.	06-09-002990
Pump, Centrif., Hast.	06-09-003796
Pump, Recip., Hast.	06-09-004635
Jet, 2-Stage, Karbate	06-09-002658
Jet, 2-Stage, Karbate	06-09-002659
Jet, 2-Stage, Karbate	06-09-002660
Jet, 3-Stage, Haveg	06-09-003370

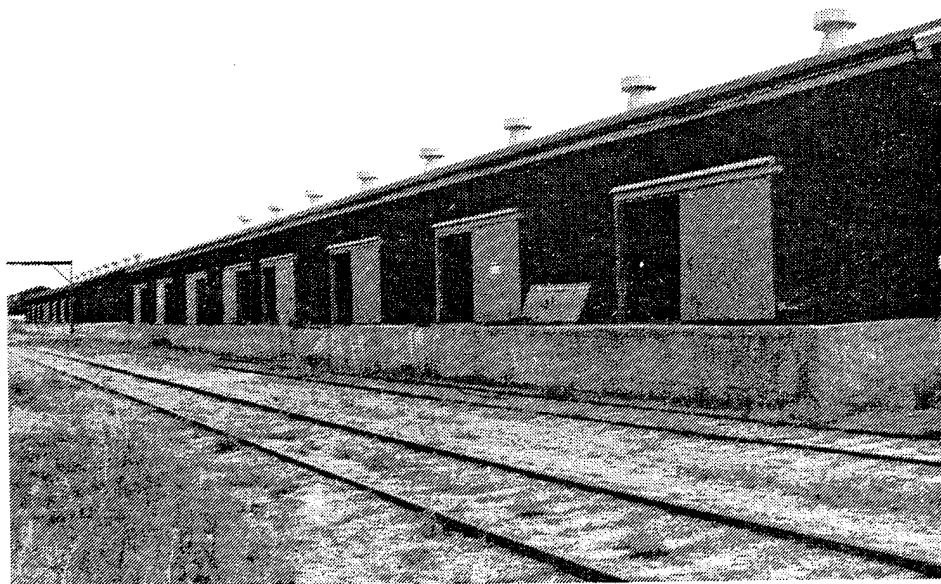
BUILDING NO. T-335

GENERAL PURPOSE WAREHOUSE

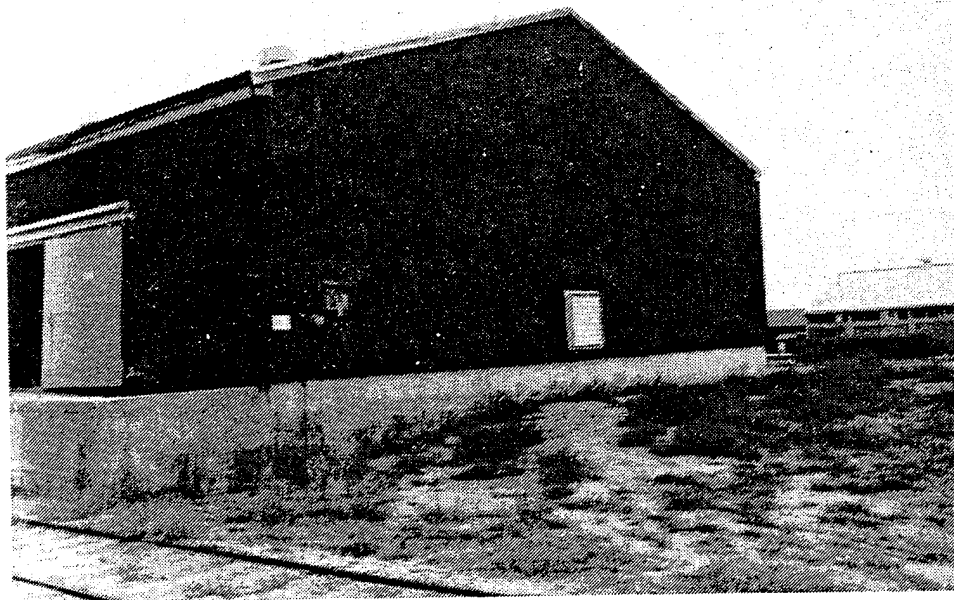
<u>Item</u>	<u>U.S. Tag No.</u>
Valve, 8" Gate, Hast.	No Tag
Valve, Gate, 1"-29 Hast.	No Tag
Valve Globe, 1/2 - 2 Hast.	No Tag
Tubing, 32.5 Ft., 10" Hast.	No Tag
Pipe, 30'-7", 6" Hast. "B"	No Tag
Pipe, 52'-3", 4" Hast. "B"	No Tag



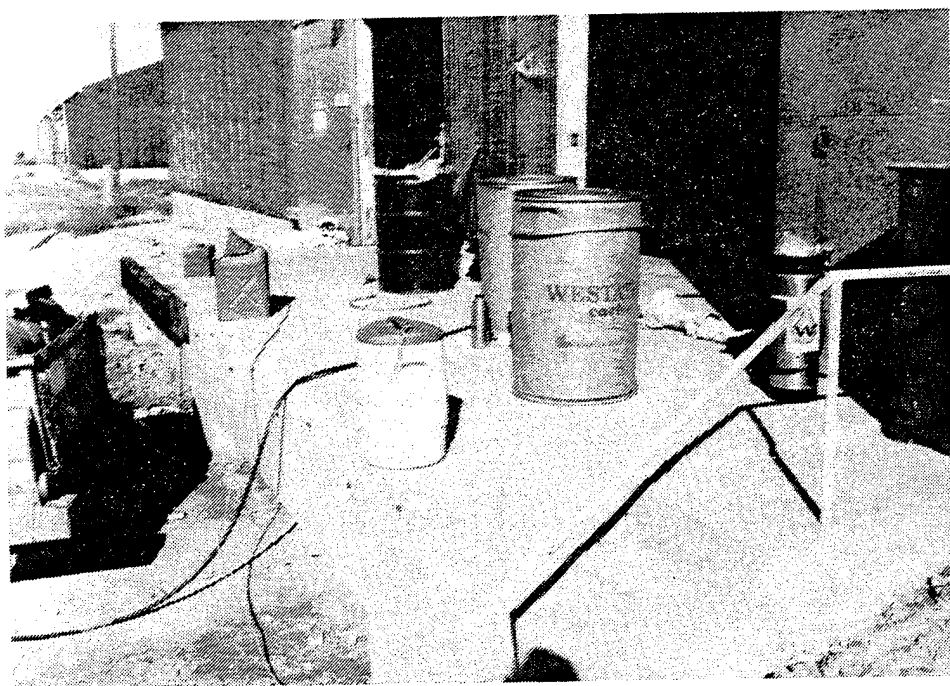
Building No. 335: General View
(Looking Northwest)
Date of Photograph: 22 September 1982



Building No. 335: General View
(Looking South)
Date of Photograph: 22 September 1982



Building No. 335: General View
(Looking East)
Date of Photograph: 22 September 1982



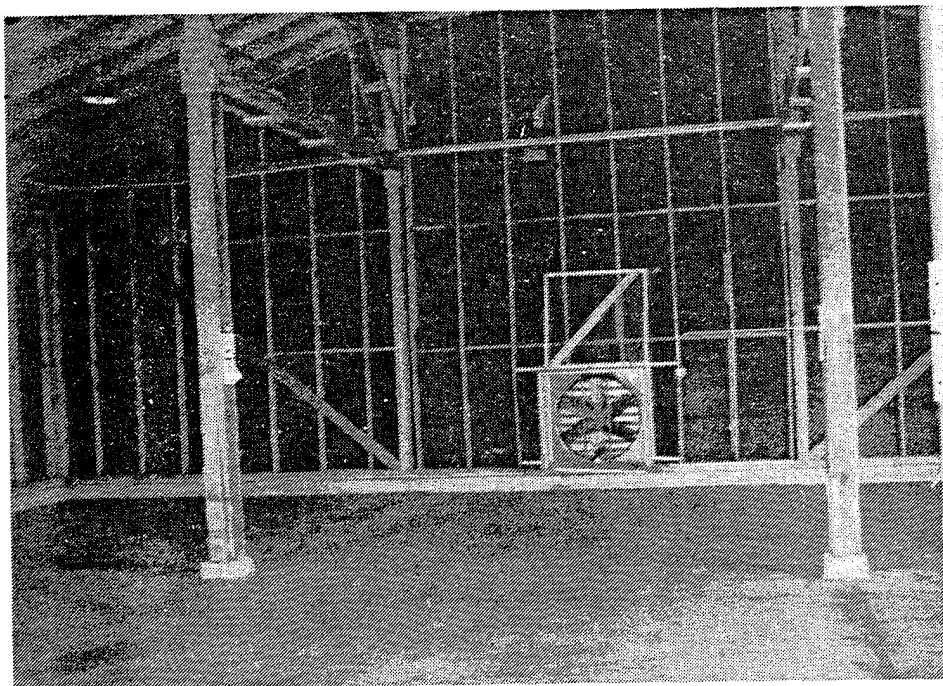
Building No. 335: Loading
Docks (South Side)
Date of Photograph: 22 September 1982



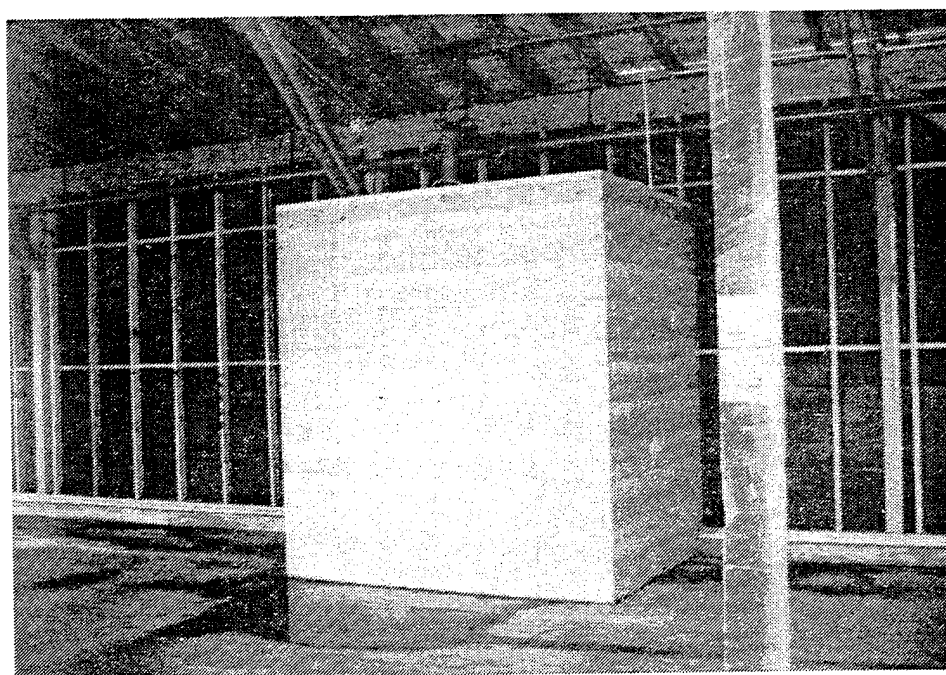
Building No. 335: Loading Dock
 (Looking East)
 Date of Photograph: 22 September 1982



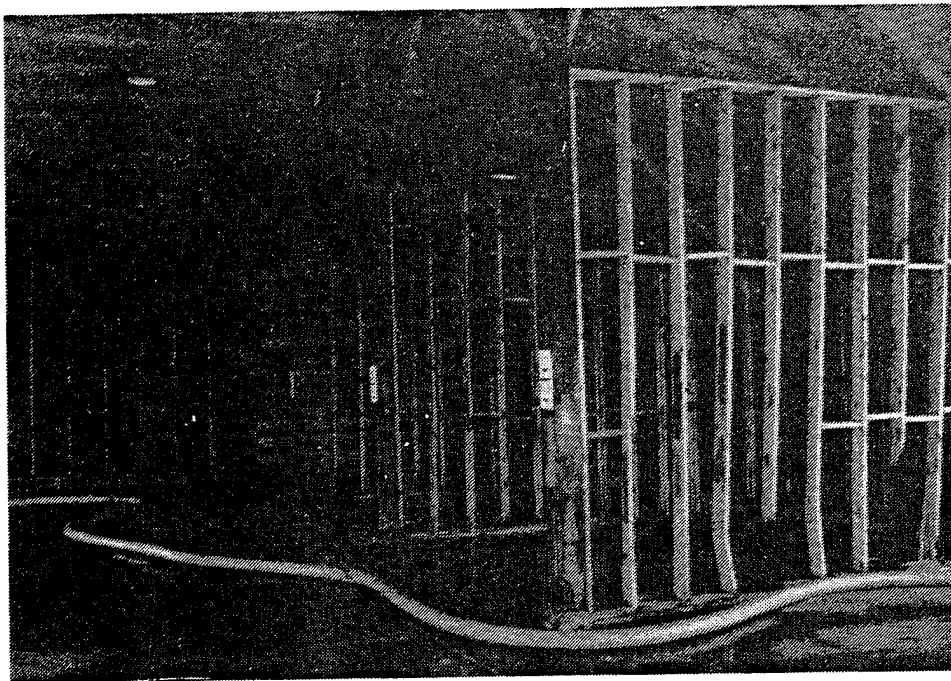
Building No. 335: Loading Dock
 (Looking West)
 Date of Photograph: 22 September 1982



Building No. 335: View of Interior
Date of Photograph: 22 September 1982



Building No. 335: View of Interior
Date of Photograph: 22 September 1982



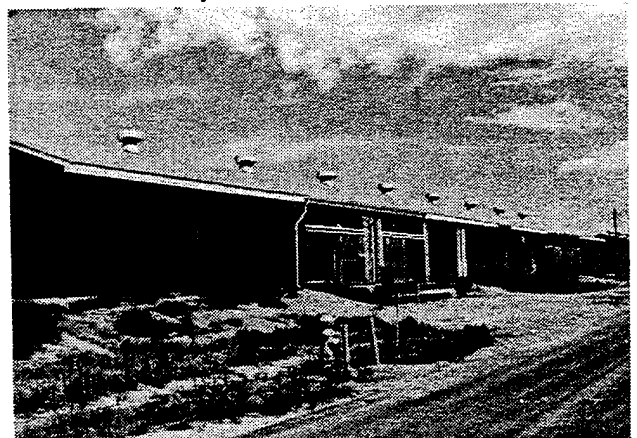
Building No. 335: View of
Interior
Date of Photograph: 22 September 1982

Property Inventory and Condition Survey
for the
Group IV Utility Systems Property
and
Group II Chemical Plant Property
within the
Shell Oil Company Leasehold Area
at
US Army Rocky Mountain Arsenal
Commerce City, CO

prepared by
Harland Bartholomew & Associates, Inc.
St. Louis, MO

11 October 1982

BUILDING NO. T-336
General Purpose Warehouse



BUILDING NO. T-336

GENERAL PURPOSE WAREHOUSE

1.00 GENERAL

.10 Date of Property Inventory and Building Condition Survey:

13 September 1982

.20 Survey Personnel:

Albert W. Wilmarth, Harland Bartholomew & Associates, Inc.

Kenneth C. Owings, Harland Bartholomew & Associates, Inc.

.30 Technical Assistance:

Roger Reed, Shell Oil Company

.40 Photography:

Gary R. Smith, Harland Bartholomew & Associates, Inc.

.50 Category Code (AR415-28):

44220

.60 Size of Building/Facility:

45'-10" x 240'-10"

.70 Year Built:

1943

.80 Original Plans Prepared by:

Whitman, Requardt and Smith

H. A. Kuljian and Company, Engineers

Denver, Colorado

2.00 DESCRIPTION OF BUILDING/FACILITY. Warehouse No. T-336 is a one story structure with concrete foundation and floor. It is wood frame

BUILDING NO. T-336

GENERAL PURPOSE WAREHOUSE

construction with Asbestos Protected Metal siding over Cel-O-Tex walls and an asphalt shingled roof. Fire protection is provided by a sprinkler system and extinguishers. Railroad and truck loading docks are included.

3.00 PRESENT CONDITION: Building No. T-336 is in fair (F) condition. The estimated remaining useful life as of September 1982, with minimum maintenance and no building use change, is 10 years.

.10 Exterior: Building No. T-336

Foundation: Concrete wall (F).

Wall finish: Asbestos Protected Metal (F).

Windows: None

Doors: Wood sliding warehouse doors (F).

Roof: Asphalt shingle (G).

Roof framing: Wood rafters (G).

2 Paint finish: Doors and trim (P).

Ventilators: Metal ventilators (F).

Miscellaneous: In general the exterior of the building is in fair (F) condition.

.20 Interior: Building No. T-336

Floor Finish: Concrete (G).

Wall Finish: Open wood stud (F).

Ceiling: Open wood rafter (G).

Windows: None

BUILDING NO. T-336

GENERAL PURPOSE WAREHOUSE



Doors: Wood sliding warehouse doors (F).

Electric Fixtures: Incandescent RCM fixtures (G).

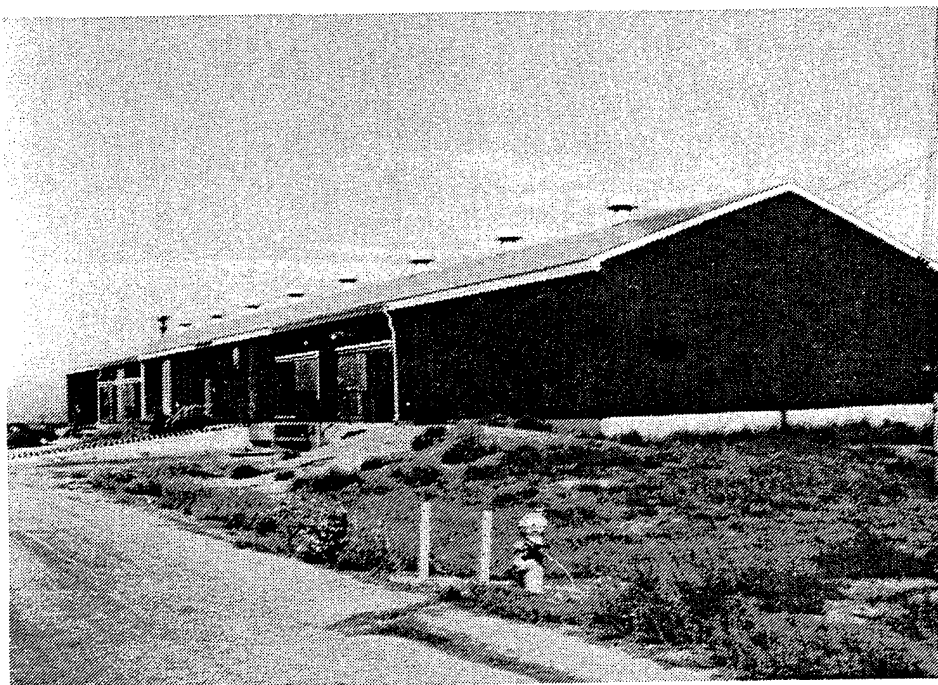
Plumbing: None

Heating: One Webster Nesbitt unit heater (G); one unit heater (F).

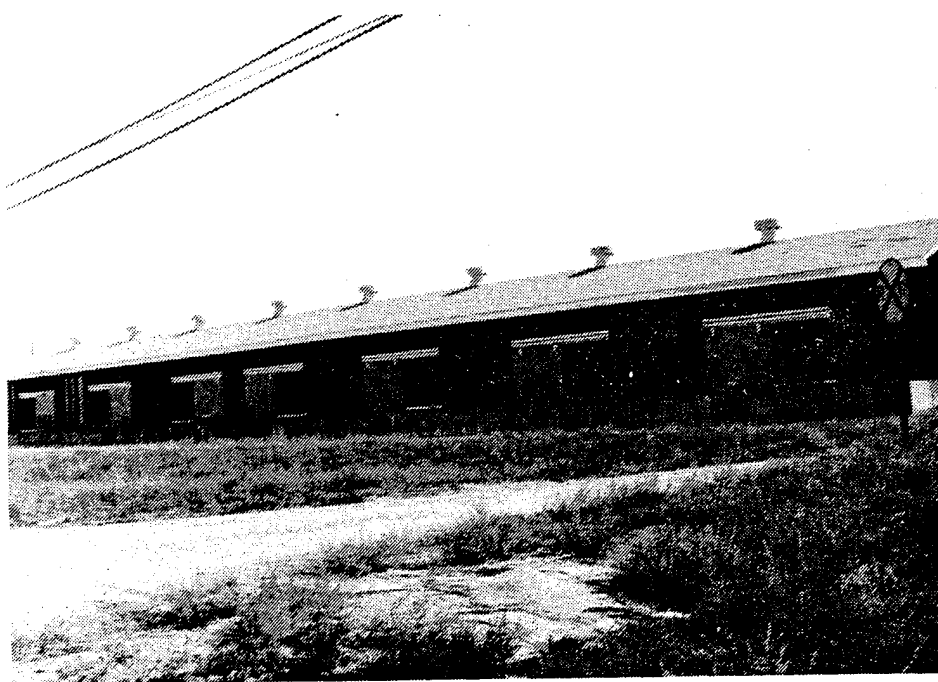
Miscellaneous: In general, the interior of the building is in fair (F) condition.

4.00 RECORD OF INSTALLED EQUIPMENT:

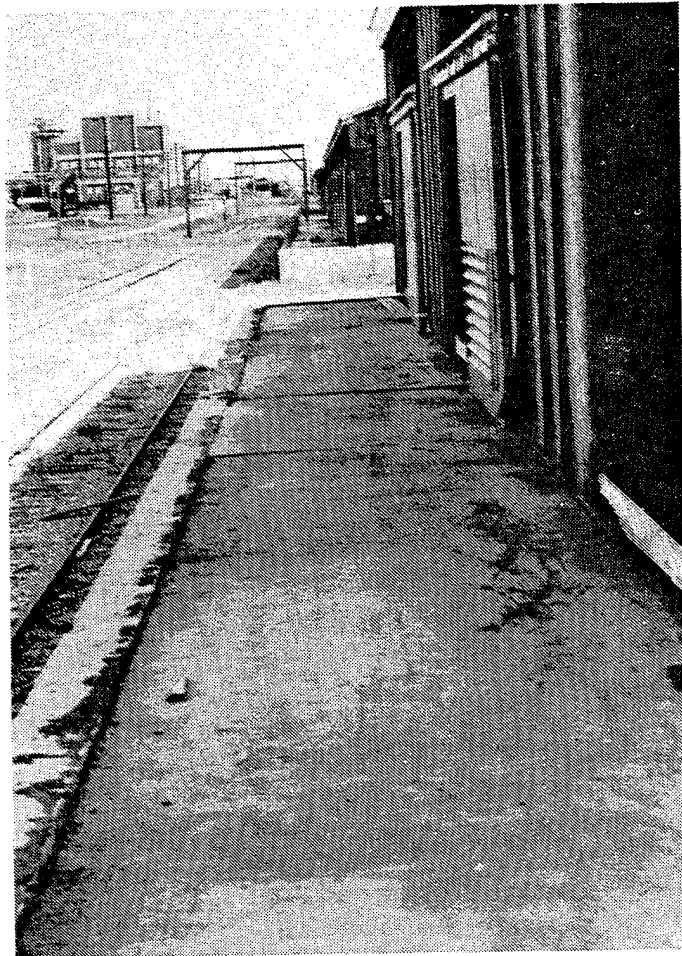
There is no installed equipment.



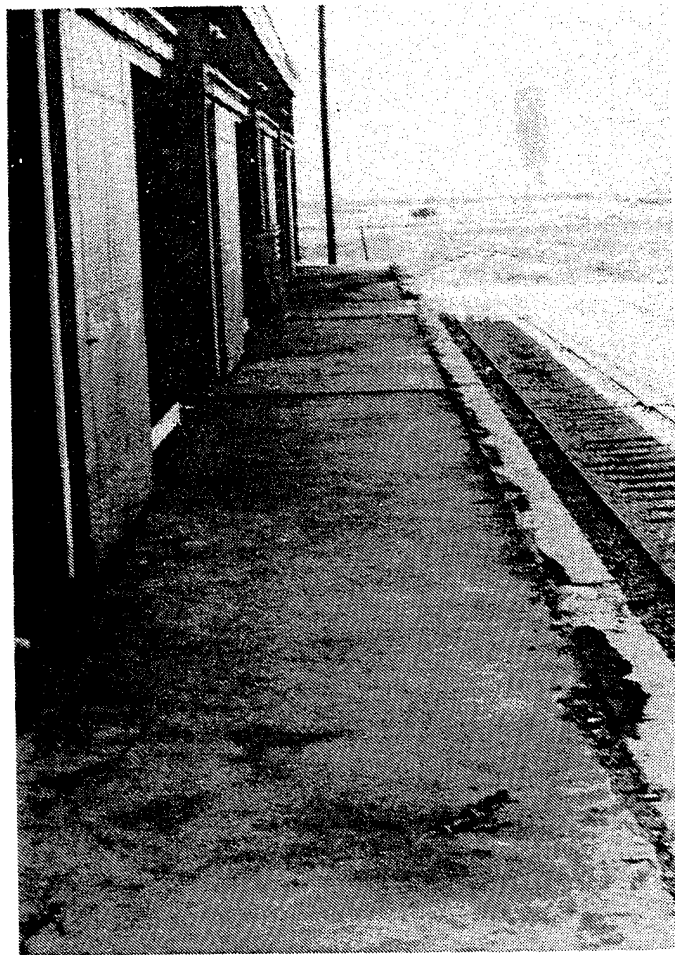
Building No. 336: General View
(Looking Northwest)
Date of Photograph: 22 September 1982



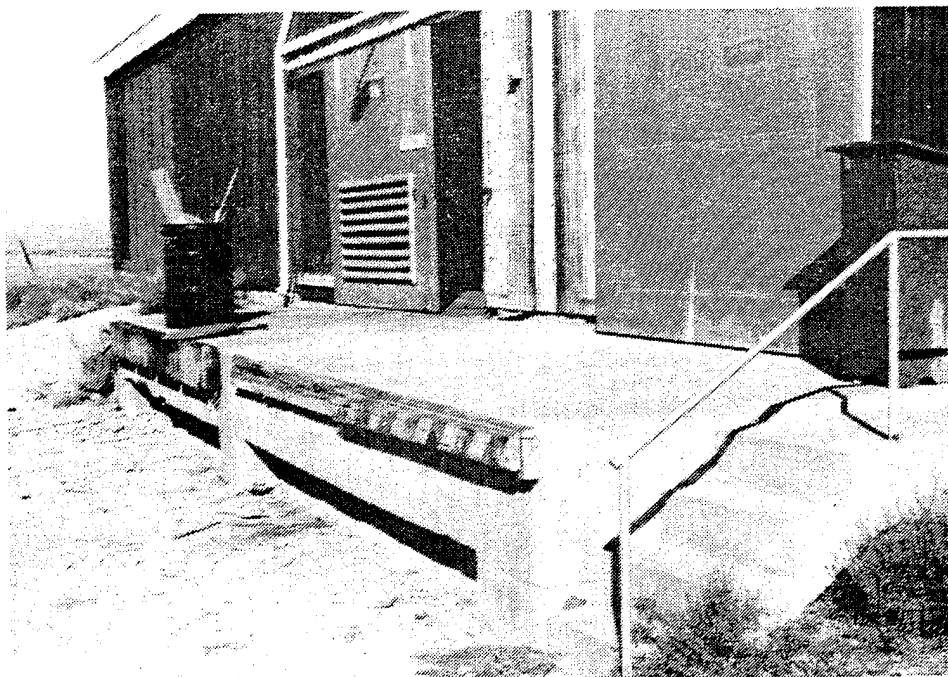
Building No. 336: General View
(Looking Southeast)
Date of Photograph: 22 September 1982



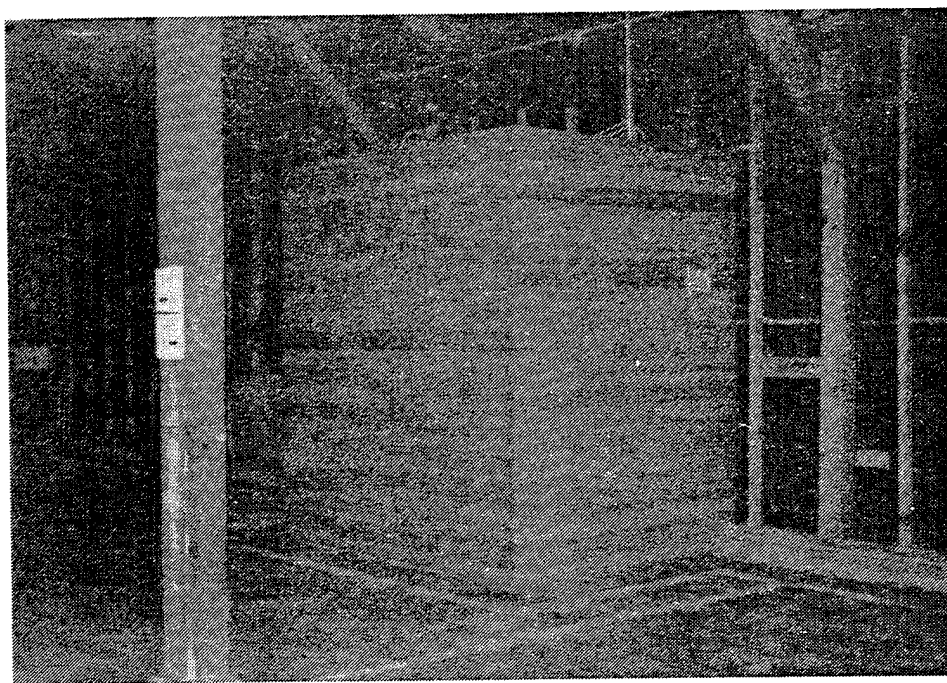
Building No. 336: Loading Dock
(Looking East)
Date of Photograph: 22 September 1982



Building No. 336: Loading Dock
(Looking West)
Date of Photograph: 22 September 1982



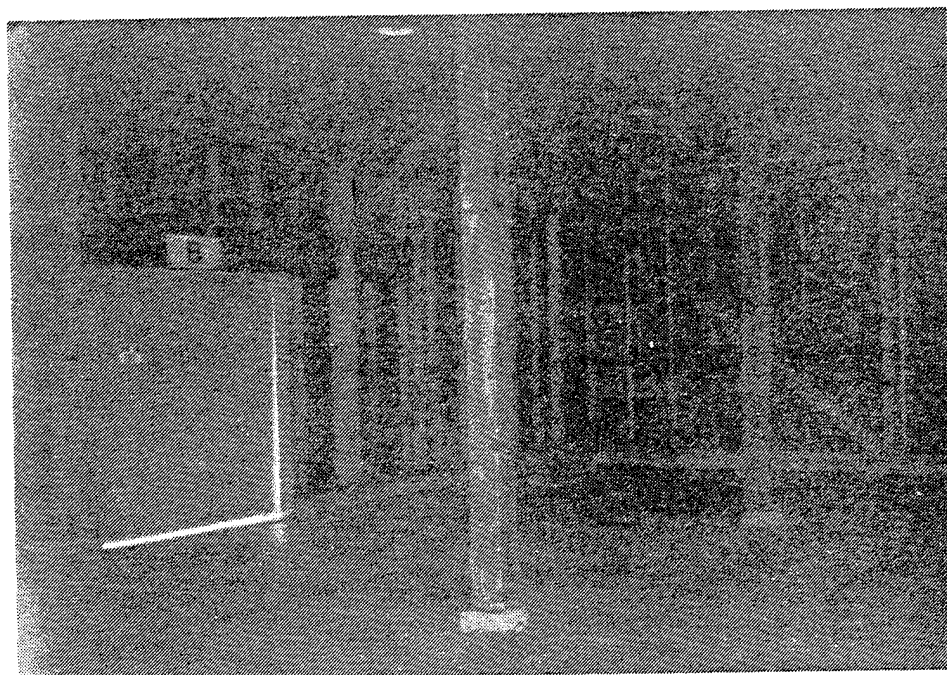
Building No. 336: Loading Dock
(South Side)
Date of Photograph: 22 September 1982



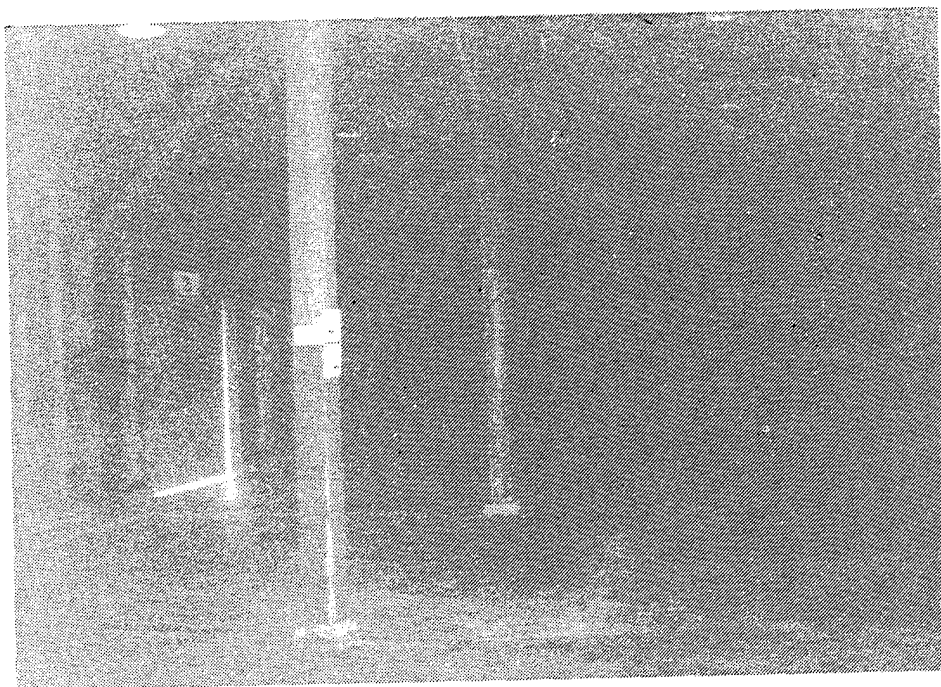
Building No. 336: View of Interior
Date of Photograph: 22 September 1982



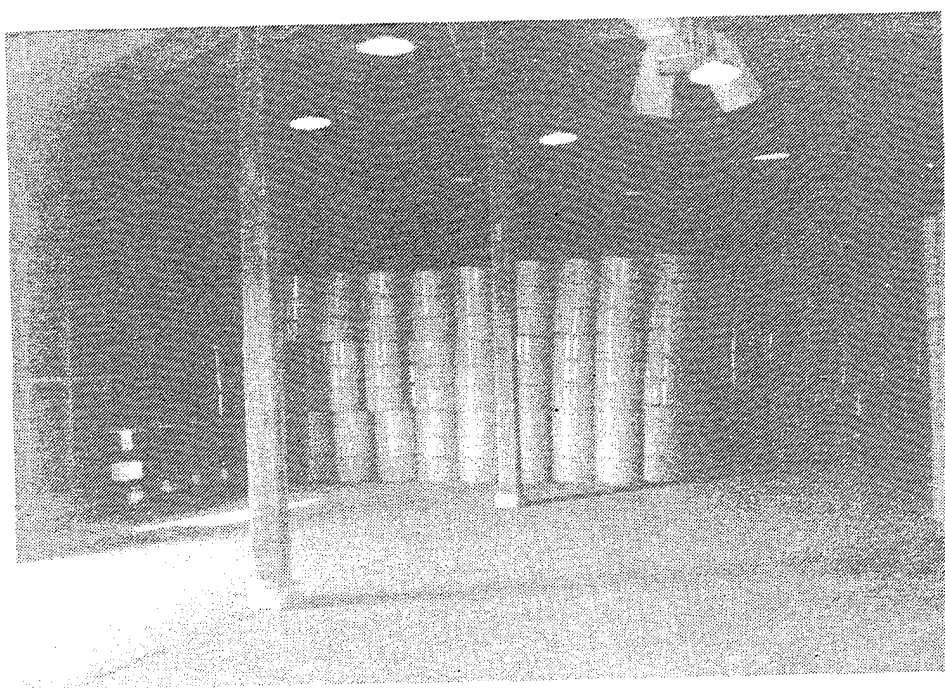
Building No. 336: View of Interior
Date of Photograph: 22 September 1982



Building No. 336: View of Interior
Date of Photograph: 22 September 1982



BUILDING NO. 336: Interior
East End
Date of Photograph: 28 September 1982



BUILDING NO. 336: Interior
East End
Date of Photograph: 28 September 1982

Property Inventory and Condition Survey
for the
Group IV Utility Systems Property
and
Group II Chemical Plant Property
within the
Shell Oil Company Leasehold Area
at
US Army Rocky Mountain Arsenal
Commerce City, CO

prepared by
Harland Bartholomew & Associates, Inc.
St. Louis, MO

11 October 1982

BUILDING NO. T-356
General Purpose Warehouse



BUILDING NO. T-356

GENERAL PURPOSE WAREHOUSE

1.00 GENERAL

.10 Date of Property Inventory and Building Condition Survey:

13 September 1982

.20 Survey Personnel:

Albert W. Wilmarth, Harland Bartholomew & Associates, Inc.

Kenneth C. Owings, Harland Bartholomew & Associates, Inc.

.30 Technical Assistance:

Roger Reed, Shell Oil Company

.40 Photography:

Gary R. Smith, Harland Bartholomew & Associates, Inc.

.50 Category Code (AR415-28):

44220

.60 Size of Building/Facility:

45'-10" x 240'-10"

.70 Year Built:

1943

.80 Original Plans Prepared by:

Whitman, Requardt and Smith

H. A. Kuljian and Company, Engineers

Denver, Colorado

2.00 DESCRIPTION OF BUILDING/FACILITY. Warehouse No. T-356 is a one story structure with concrete foundation and floor. It is wood frame

U

BUILDING NO. T-356

GENERAL PURPOSE WAREHOUSE

construction with Asbestos Protected Metal siding over Cel-O-Tex walls and asphalt shingled roof. Fire protection is provided by a sprinkler system and extinguishers. Railroad and truck loading docks are available. A covered passageway, 50' x 14' x 11' high connects this building with No. T-335.

3.00 PRESENT CONDITION: Building No. T-356 is in fair (F) condition.
The estimated remaining useful life as of September 1982, with minimum maintenance and no building use change, is 10 years.

.10 Exterior: Building No. T-356

Foundation: Concrete wall (F).

Wall finish: Asbestos Protected Metal (F).

Windows: None

Doors: Wood sliding warehouse doors (F).

Roof: Asphalt shingles (G).

Roof framing: Wood rafters (G).

2 Paint finish: Doors and trim (P).

Ventilators: Metal ventilators (G)..

Miscellaneous: In general the exterior of the building is in fair (F) condition.

.20 Interior: Building No. T-356

Floor Finish: Concrete (F).

Wall Finish: Open wood stud (F).

Ceiling: Open wood rafter (G).

Windows: None

? missing a lot.
see photo

BUILDING NO. T-356.

GENERAL PURPOSE WAREHOUSE

Doors: Wood sliding warehouse doors (F).

Electric Fixtures: Incandescent RCM fixtures (G).

Plumbing: None

Heating: One American Blower unit heat (G).

Miscellaneous: The general condition of the interior is fair (F).

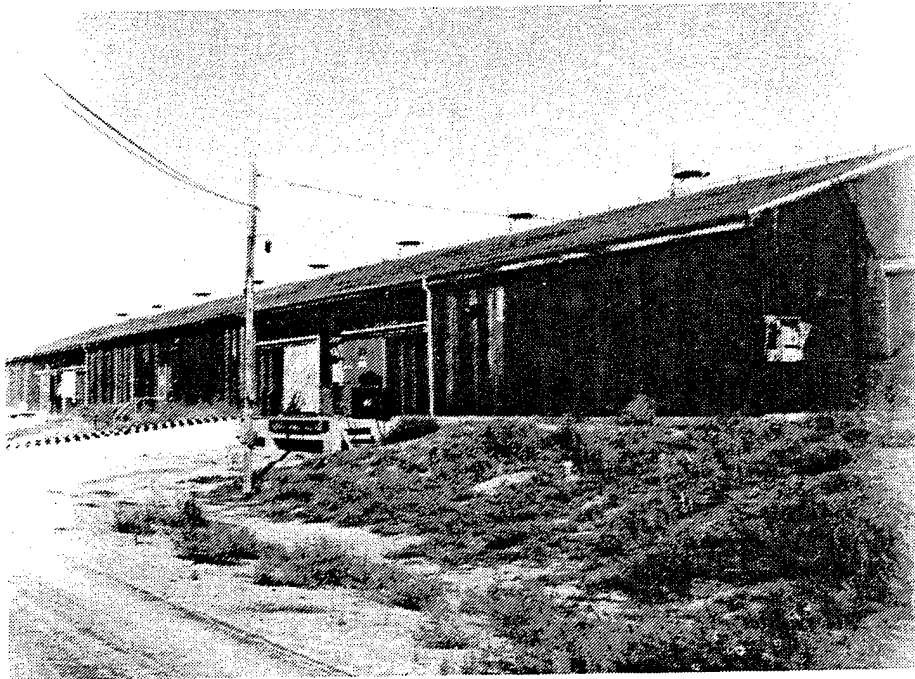
BUILDING NO. T-356

GENERAL PURPOSE WAREHOUSE

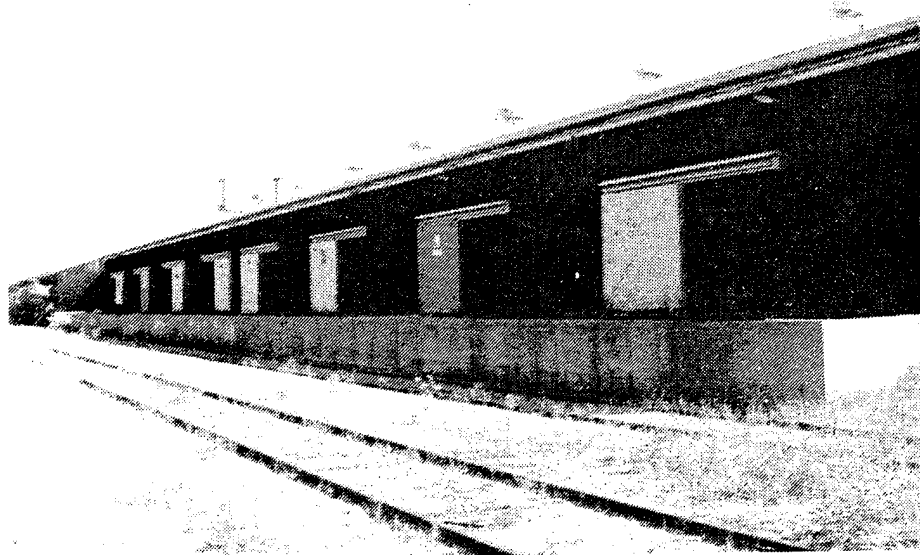
4.00 RECORD OF INSTALLED EQUIPMENT.

<u>Quantity</u>	<u>Article, Type and Model</u>	<u>Size</u>	<u>Manufacturer</u>	<u>Previous Condition Code</u>	<u>Current Condition Code</u>	<u>Remarks</u>
1	Unit Heater, Steam		American Blower	N/A *	(0-2)	
1	Electric Motor	3 hp	General Electric	N/A	(0-2)	S/N 13846

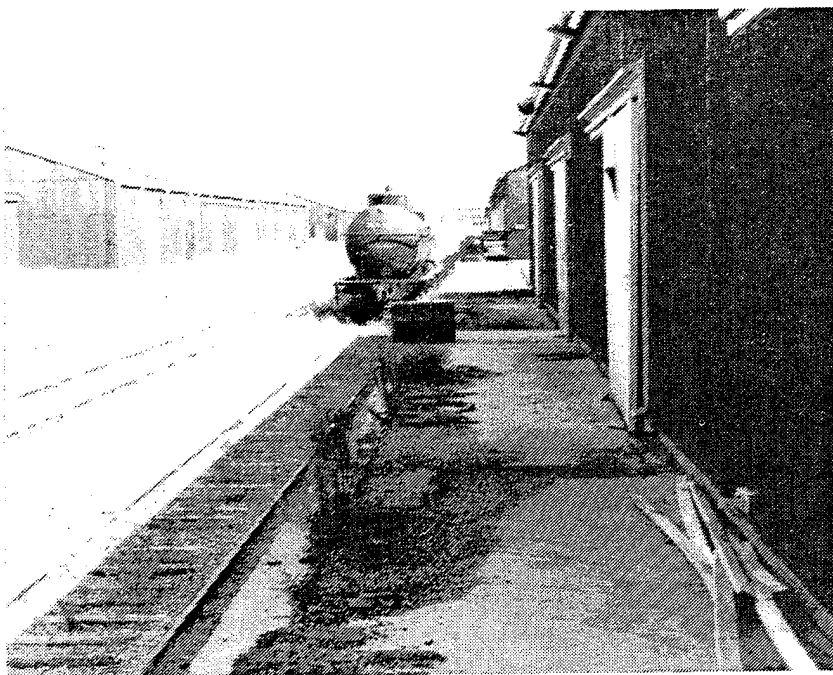
* N/A Under Previous Condition Code indicates condition coding was not included in original Condition Survey and Inventory Reports. (Typical for all Buildings)



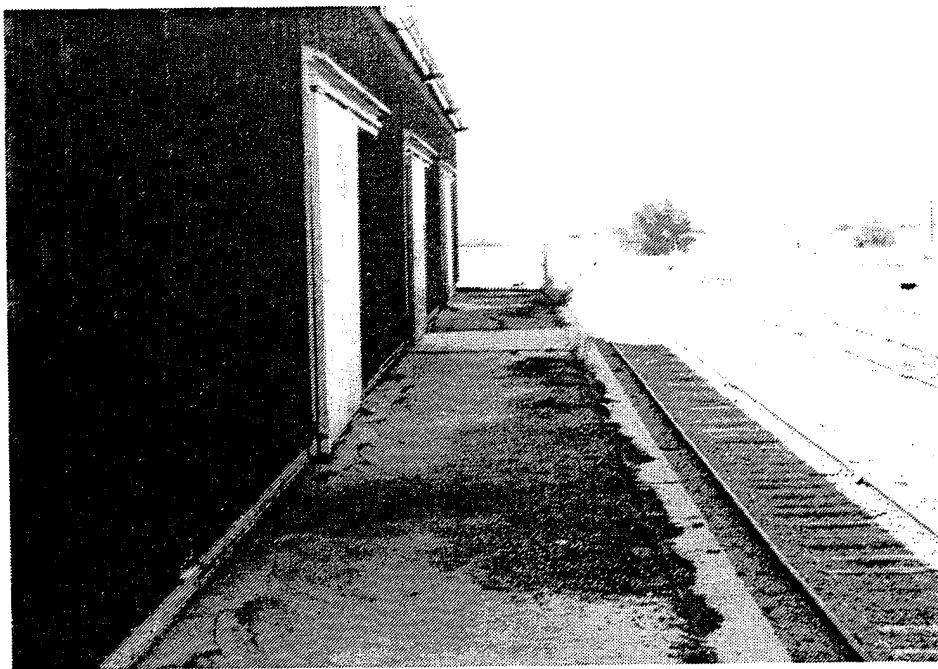
Building No. 356: General View
(Looking Northwest)
Date of Photograph: 22 September 1982



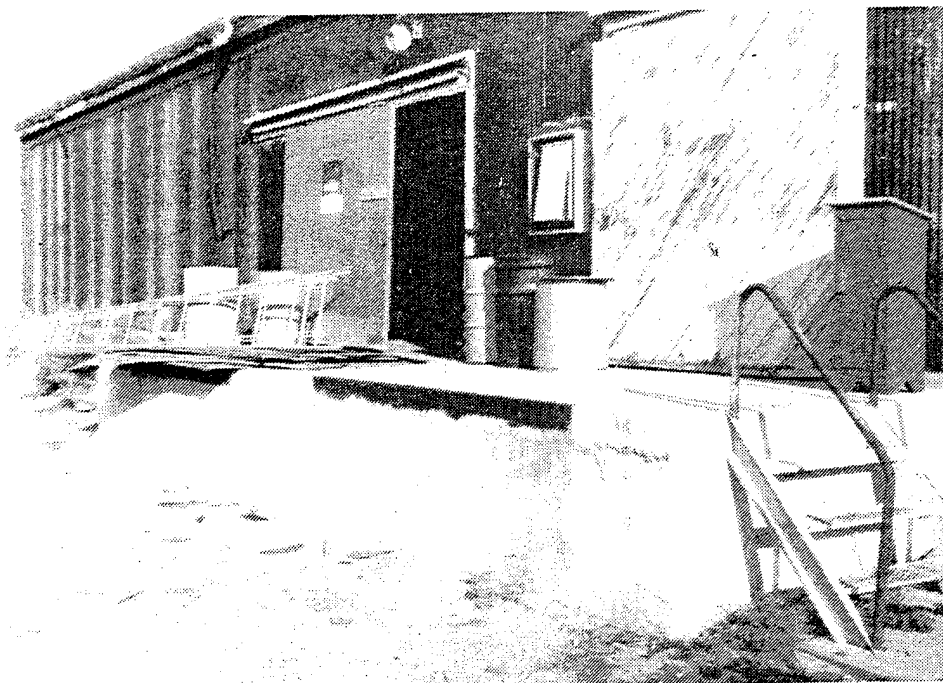
Building No. 356: General View
(Looking Southeast)
Date of Photograph: 22 September 1982



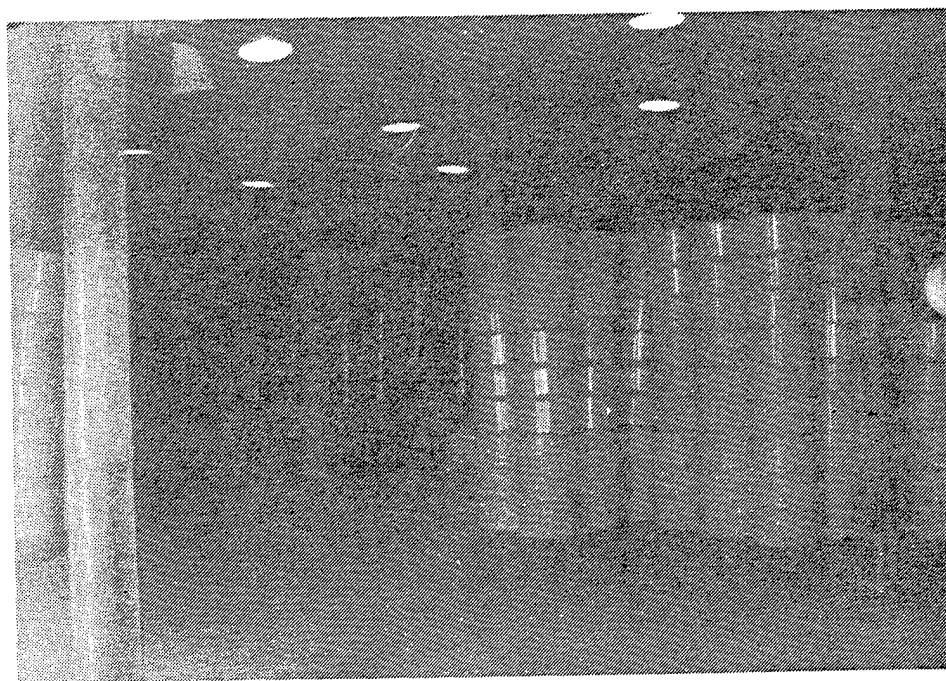
Building No. 356: Loading Dock
(Looking East)
Date of Photograph: 22 September 1982



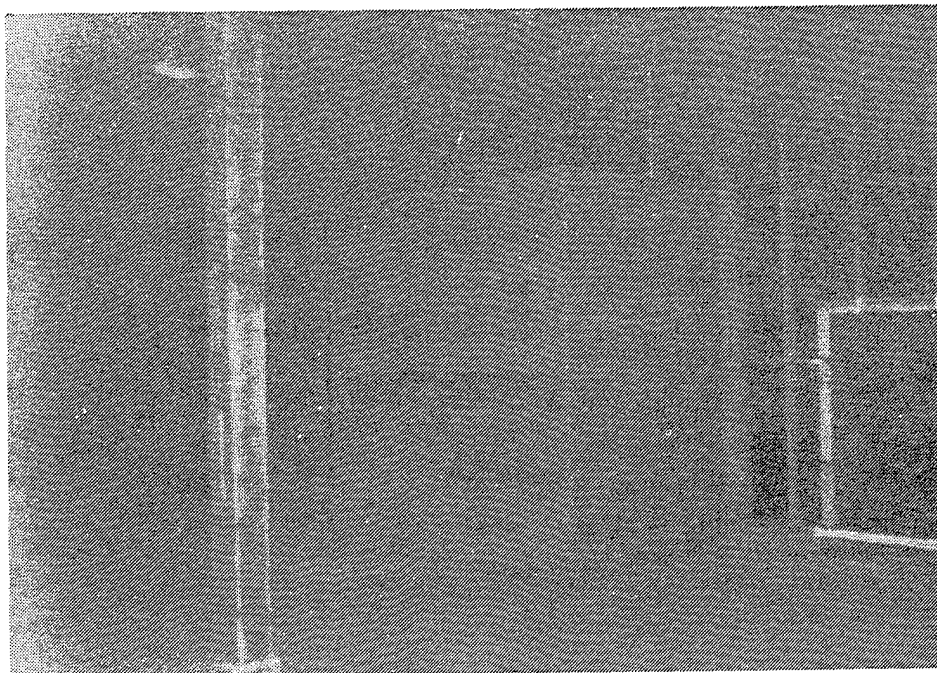
Building No. 356: Loading Dock
(Looking West)
Date of Photograph: 22 September 1982



Building No. 356: Loading Dock
(South Side)
Date of Photograph: 22 September 1982



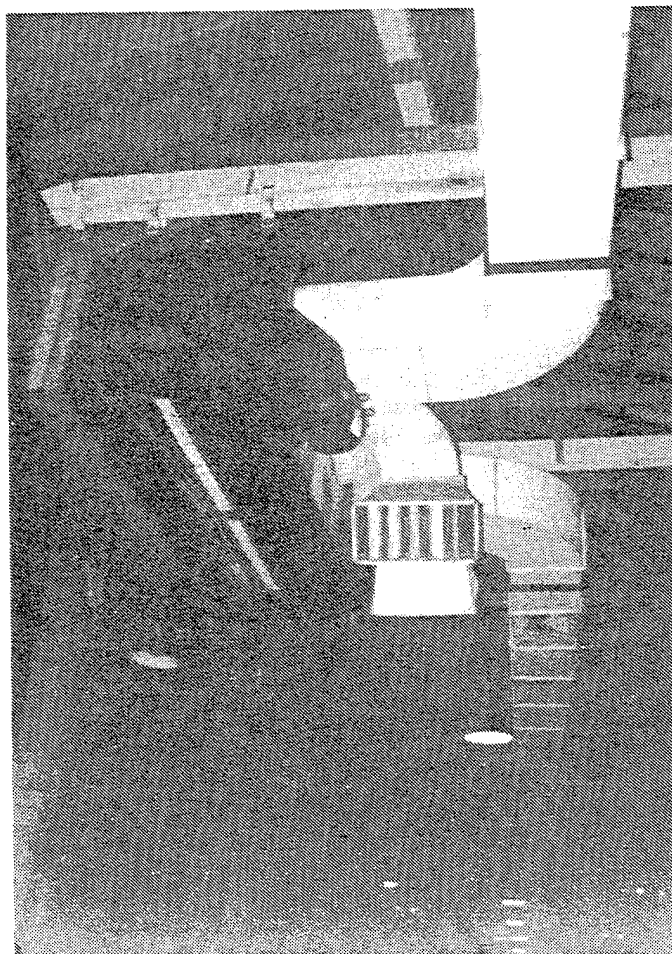
Building No. 356: View of Interior
Date of Photograph: 22 September 1982



Building No. 356: View of
Interior
Date of Photograph: 22 September 1982



Building No. 356: View of Interior
Date of Photograph: 22 September 1982



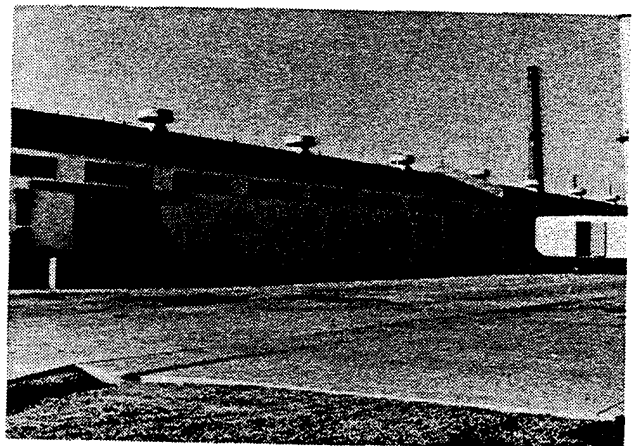
BUILDING NO. 356: Interior
Heater
Date of Photograph: 28 September 1982

Property Inventory and Condition Survey
for the
Group IV Utility Systems Property
and
Group II Chemical Plant Property
within the
Shell Oil Company Leasehold Area
at
US Army Rocky Mountain Arsenal
Commerce City, CO

prepared by
Harland Bartholomew & Associates, Inc.
St. Louis, MO

11 October 1982

BUILDING NO. 728
General Purpose Warehouse



BUILDING NO. 728

GENERAL PURPOSE WAREHOUSE

1.00 GENERAL

.10 Date of Property Inventory and Building Condition Survey:

13 September 1982

.20 Survey Personnel:

Albert W. Wilmarth, Harland Bartholomew & Associates, Inc.

Kenneth C. Owings, Harland Bartholomew & Associates, Inc.

.30 Technical Assistance:

Roger Reed, Shell Oil Company

.40 Photography:

Gary R. Smith, Harland Bartholomew & Associates, Inc.

.50 Category Code (AR415-28):

44220

.60 Size of Building/Facility:

75'-4" x 302'-4"

.70 Year Built:

1945

.80 Original Plans Prepared by:

Whitman, Requardt and Smith

H. A. Kuljian and Company, Engineers

Denver, Colorado

2.00 DESCRIPTION OF BUILDING/FACILITY. Building No. 728 is a one story structure with concrete foundation and floor, cinder block and brick

BUILDING NO. 728

GENERAL PURPOSE WAREHOUSE

walls and a roof of composition shingles over wood frame and sheathing. A brick firewall separates the building into two warehouse areas. Fire protection is provided by a stand pipe, extinguishers and a lightning rod system. Gravity roof ventilators and steam unit heaters provide heating and ventilation. Railroad and truck loading docks are provided.

3.00 PRESENT CONDITION: Building No. 728 is in fair to good (F) condition. The estimated remaining useful life as of September 1982, with minimum maintenance and no building use change, is 15 years.

.10 Exterior: Building No. 728

Foundation: Concrete wall (G).

Wall finish: Tile (G).

Windows: None

Doors: Wood sliding warehouse doors (G).

Roof: Asphalt shingle (F).

Roof framing: Wood rafters (G).

Paint finish: Doors and trim (F).

Ventilators: Metal ventilators (G).

Miscellaneous: In general the exterior of the building is in fair (F) condition.

.20 Interior: Building No. 728

Floor Finish: Concrete (G).

Wall Finish: Tile (G).

BUILDING NO. 728

GENERAL PURPOSE WAREHOUSE

Ceiling: Open wood rafter (G).

Windows: None

Doors: Wood sliding warehouse doors (G).

Electric Fixtures: Incandescent RCM fixtures (G).

Plumbing: None

Heating: Eight steam unit heaters (G).

Miscellaneous: In general the interior of the building is in good (G) condition.

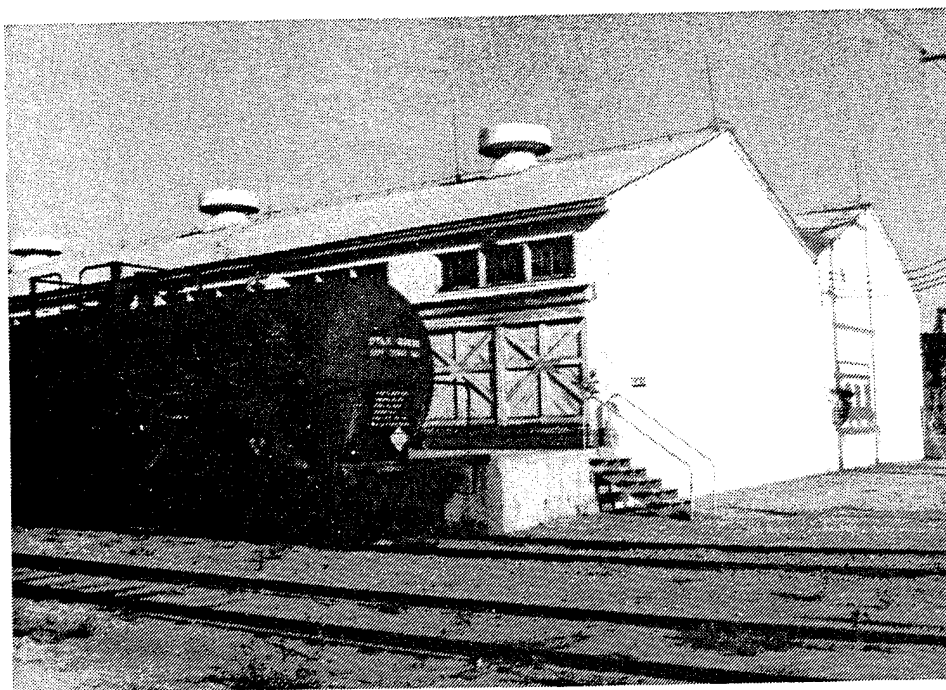
BUILDING NO. 728

GENERAL PURPOSE WAREHOUSE

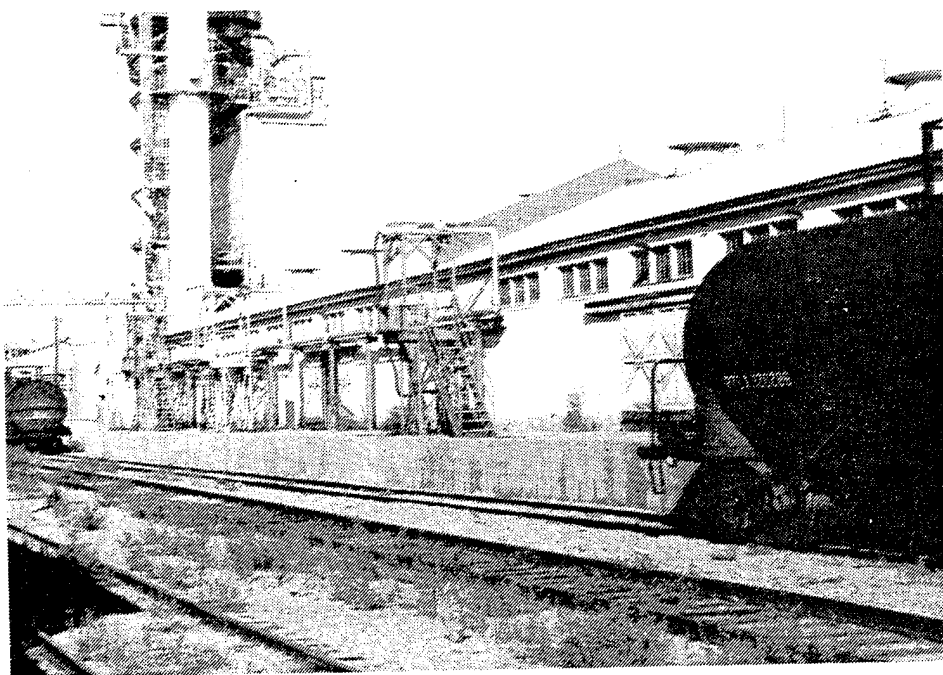
4.00 RECORD OF INSTALLED EQUIPMENT.

<u>Quantity</u>	<u>Article, Type and Model</u>	<u>Size</u>	<u>Manufacturer</u>	<u>Previous Condition Code</u>	<u>Current Condition Code</u>	<u>Remarks</u>
8	Unit Heaters MDL-18PS	N/A	Trane	N/A *	(G)	S/N's - 64708 64694 - 64705 64702 - 64697 64704 - 64711 64701
8	Electric Motors	1/4 hp	Master	N/A	(G)	RMA Nos. 1418 1419 - 1421 1422 - 1415 1416 - 1417 1423
2	Pump Condensate	N/A	N/A	N/A	(F)	RMA Nos. 4619 - 4620
2	Starters Type ESG18B	N/A	N/A	N/A	(G)	RMA Nos. 3160 - 3161

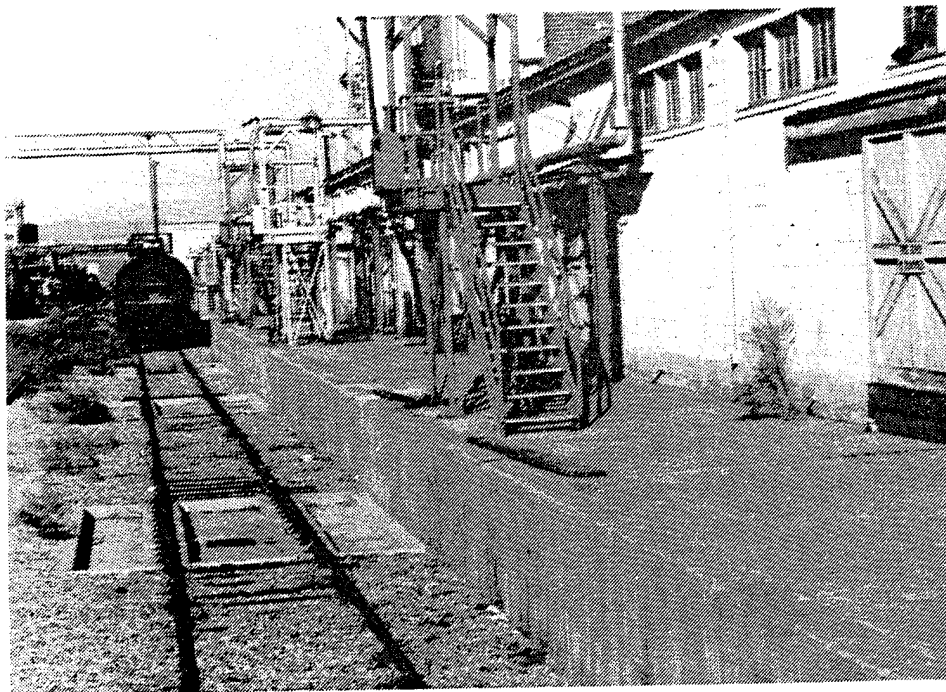
* N/A Under Previous Condition Code indicates condition coding was not included in original Condition Survey and Inventory Reports. (Typical for all Buildings)



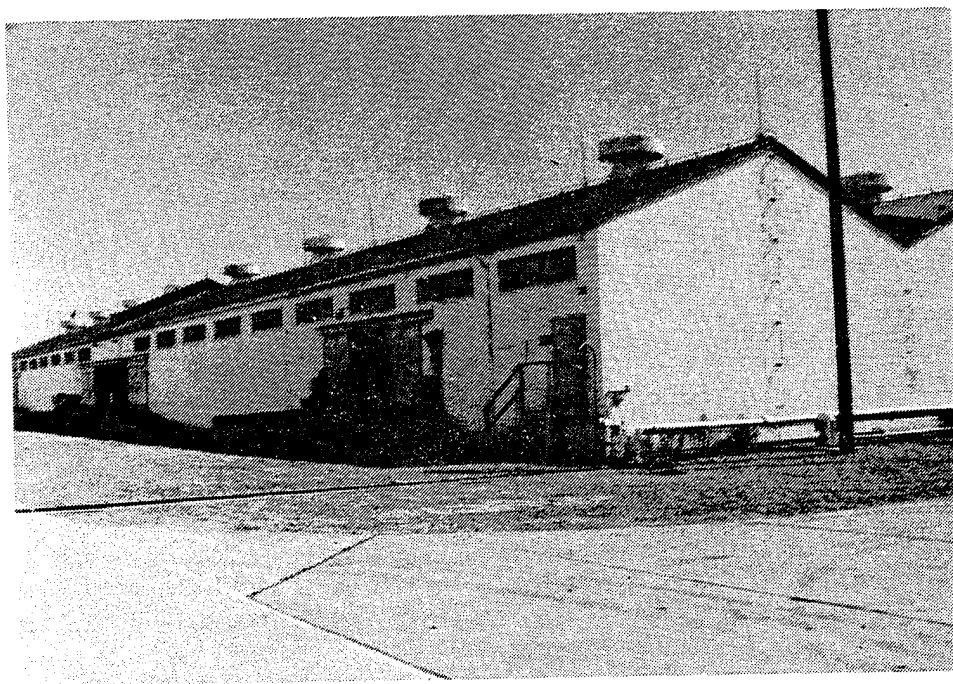
Building No. 728: General View
(Looking Northwest) (1)
Date of Photograph: 22 September 1982



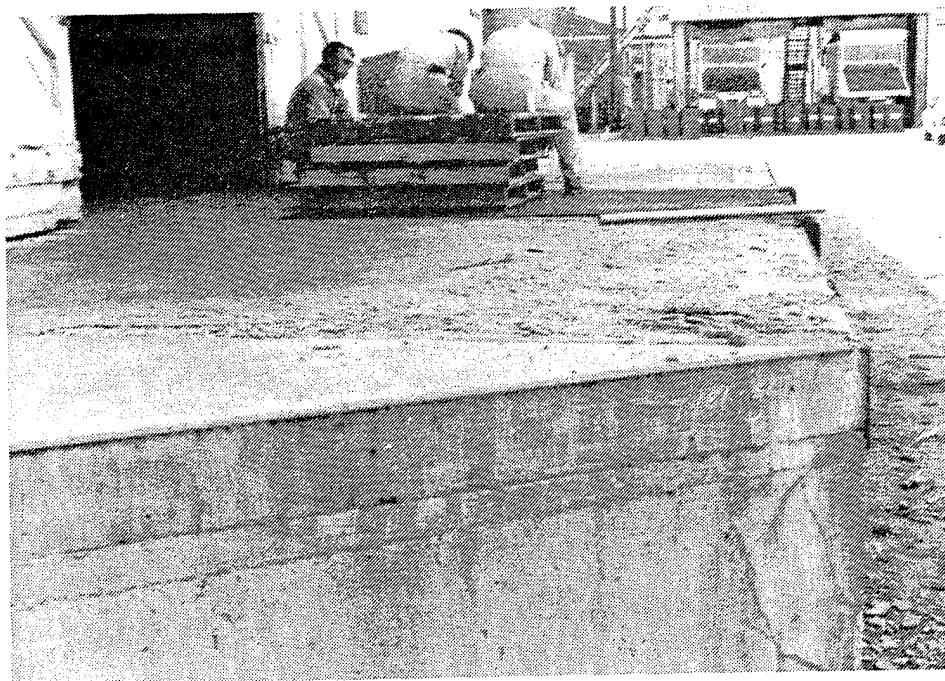
Building No. 728: General View
(Looking Northwest) (2)
Date of Photograph: 22 September 1982



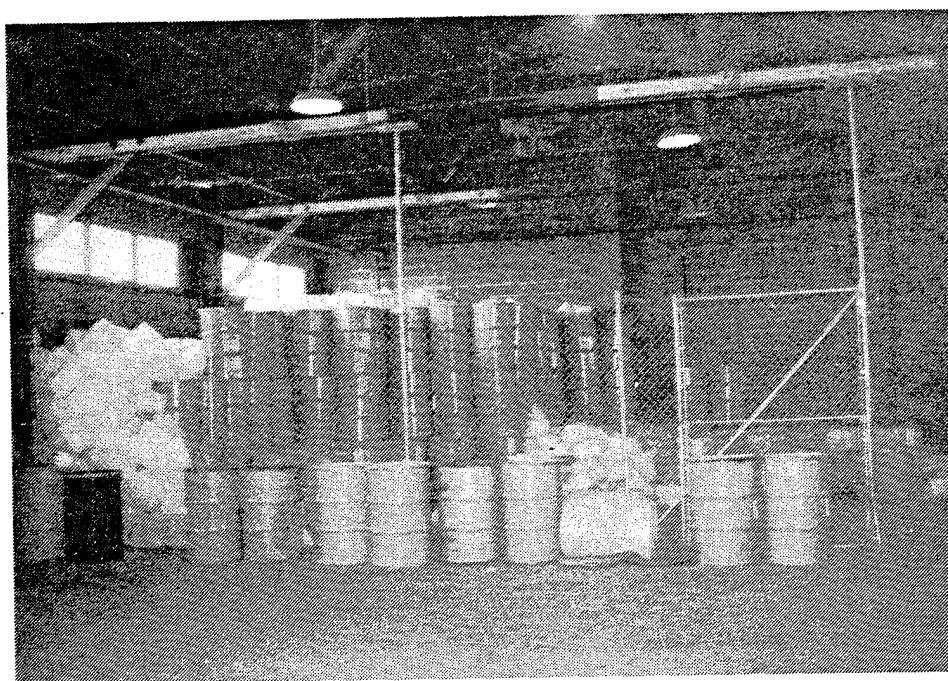
Building No. 728:
Loading Docks (South Side)
Date of Photograph: 22 September 1982



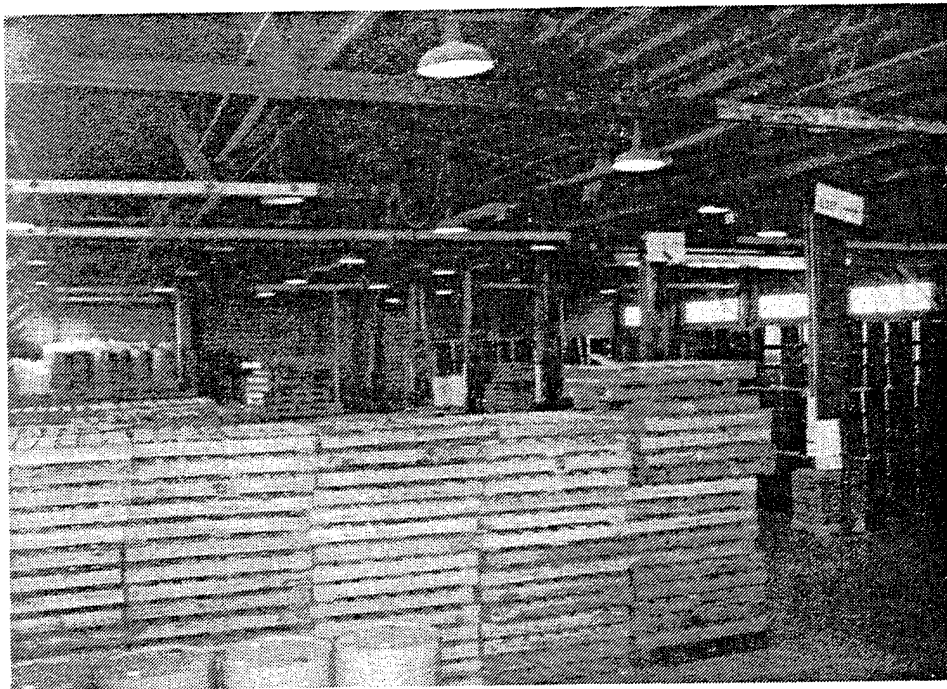
Building No. 728: General View
(Looking Southeast)
Date of Photograph: 22 September 1982



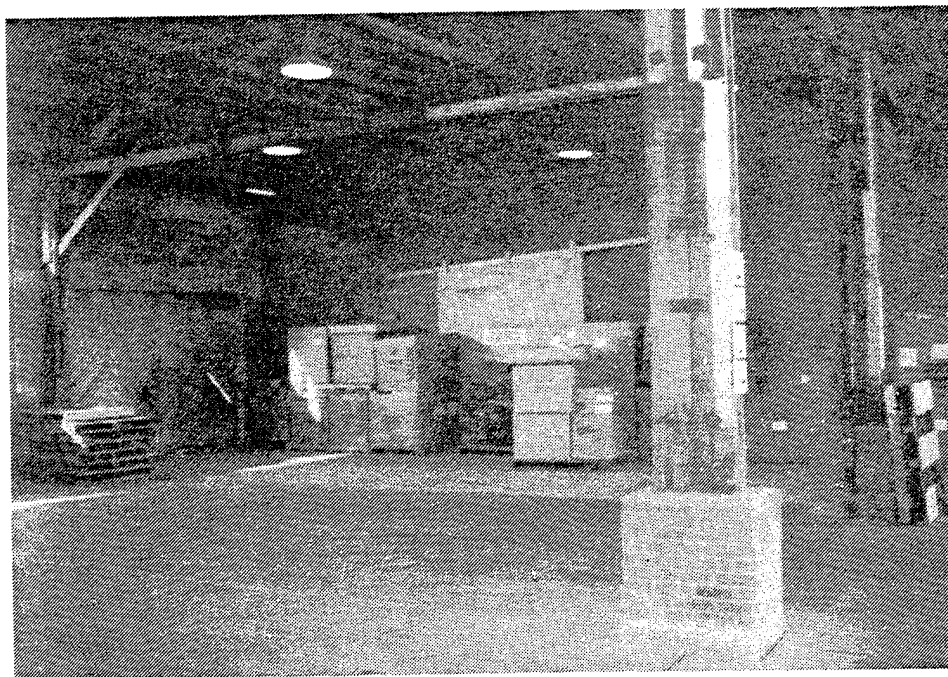
Building No. 728: Loading Dock
(North Side)
Date of Photograph: 22 September 1982



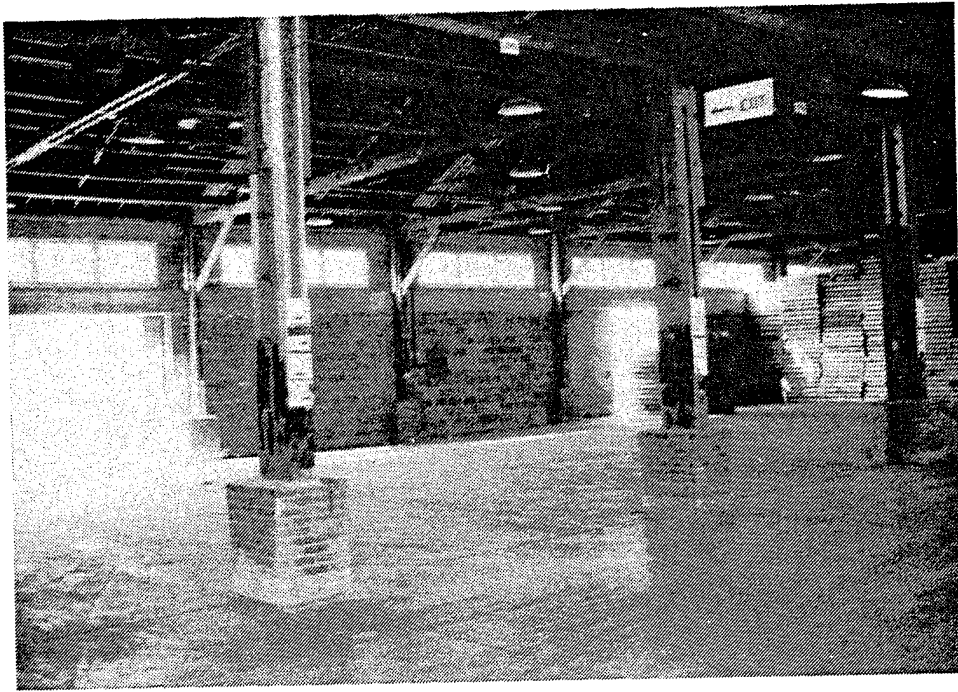
Building No. 728: General View
Interior (East End)
Date of Photograph: 22 September 1982



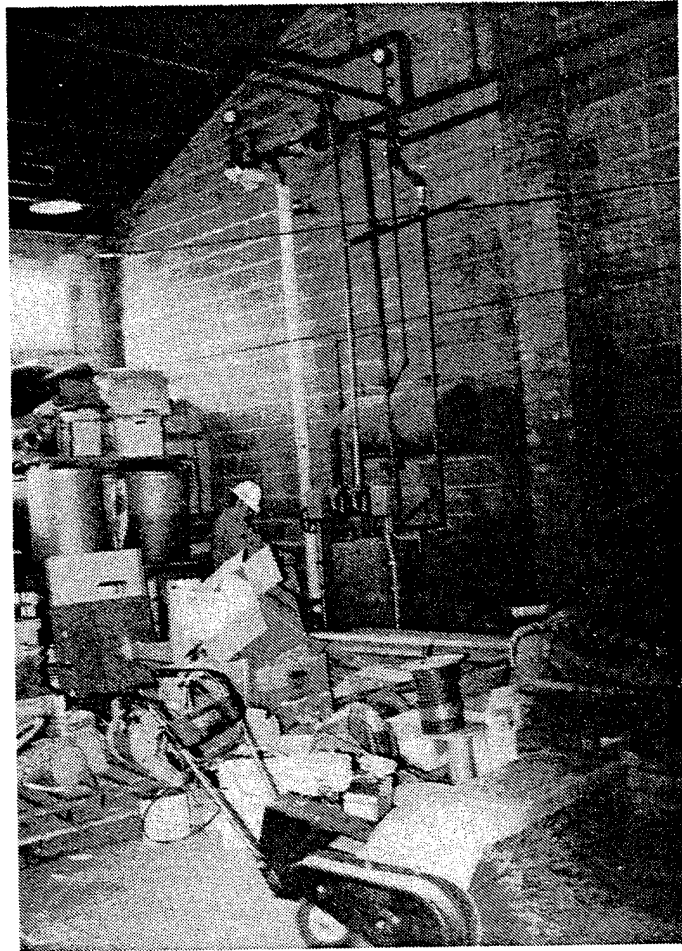
Building No. 728: General View
Interior (East End)
Date of Photograph: 22 September 1982



Building No. 728: General View
Interior (East End)
Date of Photograph: 22 September 1982



Building No. 728: General View
Interior (West End)
Date of Photograph: 22 September 1982



Building No. 728: General View
Interior (West End)
Date of Photograph: 22 September 1982